AMANO

AMANO Corporation

# ENVIRONMENTAL SYSTEMS

## GENERAL CATALOG

- Dust collectors
- Vacuum cleaners
- Mist collectors
- Pneumatic conveying systems

www.amano.co.jp/English/environmental.html

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## Using engineering to the max to solve eco-issues and problems from Japan to the world!

Cleaner, faster, with more satisfaction.

Amano has been meeting customer production plant needs since 1951 when it first started working on environmental issues. We can provide continual support for ever-evolving production plant engineering since we continuously upgrade and refine our tech skills.

Our production engineering is known worldwide as the No. 1 catalyst for Japanese craftsmanship. We do our part by helping to lower labor accidents and reduce accidents!

Our work doesn't end there! We also make tech breakthroughs that precisely capture market and social needs such as by improving work efficiency, boosting production and removing toxic subtances to continuously produced products that are just what the customer wants!

Amano is also currently enlarging its playing field to include not only Japan but the rest of the world as well.

High-level environmental tech fostered in Japan to all types of factories the world over.

Total engineering to environmental issues confronting plant management.



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# AMANO ENVIRONMENTAL SYSTEMS LINEUP



## Compact Dust Collectors

| | Low pressure (static pressure up to 3 kPa) | | Mid-to-high pressure (static pressure 5kPa or more) | |
|---|---|---|---|---|
| | Manual shaking | Pulse jet | Manual shaking | Pulse jet |
| **General dry dust** | P5 VF-5N, P5 IS-15, P6 VNA | PiF P6~7 | VF-2S P8 | Mi P8, IP/IX/IB P9 |
| **For inflammable-combustible dust** | ※Scrubber SS-N P14 | | | |
| **For potentially explosive power or dust** (With explosion pressure diffusion port) | VNA-SDN P23, VN-SD P23 | PiE-SDN P24, PiF-D/SD P24 | | IP-D/IX-D/IB-D P9 |
| **Food factories and Pharmaceutical factories** | SP P10 | | | FP-N P9, FPV-2S P10 |
| **For laser markers** | VF-5HN P13, VF-5H P13 | PiH P14 | VF-5HG P12 | |
| **Welding work** | FD-10 P11, HF P12 | FCN P11 | | |

※Calculate the small dust collector device internal pressure loss (filter pressure differential) utilizing about 1.47 kPa as a general guide.

| **Preprocessing device** | |
|---|---|
| Cyclone | P15 SR |
| Centrifugal pre-dust box | P15 DB |

## Vacuum Cleaners

| | | Manual shaking | Pulse jet |
|---|---|---|---|
| **General dry dust** | | P16 V-Σ | IPR/IXR P16, ACR-PK P16 |
| **For potentially explosive power or dust** (With explosion pressure diffusion port) | | P17 V-SDR | |
| | For toners (organic powder) | P17 VF-2LD | |

**We will exchange confirmatory notes after the business discussion below. Please contact our dealer for more information.**

- A "product export application confirmatory note" is required for the export business discussion.
- Please inquire to our company sales representative if a certificate of non-applicability is required.
- A "Consultation confirmatory sheet"is required on dust explosion pressure diffusion type dust collectors & vacuum cleaners, welding work dust collectors and wet type dust collectors.
- Business discussions for dust explosion pressure diffusion type dust collectors & vacuum cleaners require performing an explosion test and a hazard rating (billable).

①Explosion index (Kst value) ②Maximum explosion pressure (Pmax) ③Minimum ignition energy (MIE)

## Large-scale Dust Collectors

| | Medium and lower pressure (static pressure up to 5 kPa) | | High pressure (static pressure up to 20 kPa) |
|---|---|---|---|
| | Large air volume (up to 1000m³/min[35315cfm]) | Medium air volume (up to 100m³/min[3531cfm]) | Medium air volume (up to 100m³/min[3531cfm]) |
| **Plate filter** | SNP P25 | | |
| **Woven filter** | SI P25 | | |
| **Woven filter** | WRT P25 | BV P25 | CT P25 |
| High-temperature toxic gas eliminator system | HGD P26 | | |
| **Molded cartridge filter** | WRT-ST P25 | PPC P26 | MF P26 |
| Bag-in bag-out type | TFP P26 | | |
| Stainless steel specifications (for high pharmacologically-active powder) | TFP-S P26 | | |

※WRT-ST is equipment having a molded cartridge filter mounted in the WRT unit.

※The bag-in bag-out concept utilizes a dedicated filter to allow replacing filters & ejecting dust without touching the filter or dust.

## Mist Collectors

| | Electrostatic precipitator | | Filter type | Filter less |
|---|---|---|---|---|
| | | Self-Cleaning | | |
| **Large air volume (50m³/min [1765cfm] or more)** | EM-eH P20 | | MS P22 | |
| **Small air volume (up to 50m³/min [1765cfm])** | EM-8eⅡ P18, EM-eⅡ P18 | EM-SC P19, EM-SCⅡLt P19 | MZ P21, MC-45 P22 | MJ P21 |

## Pneumatic Conveying Systems

| | | | Pressure feed | Vacuum feed |
|---|---|---|---|---|
| **Large volume conveyor (up to 200 tons/h)** | High pressure (Compressor) | Blow pot type | HAF P33 | |
| | | High sealing feeder type | HSF P33 | |
| | Low pressure(Blower) | | LAF P33 | VAF P33 |
| **Small volume conveyor (up to 2 tons/h)** | For foodstuff and pharmaceutical plants | Blower type | | FPV P34 |
| | | Ejector pump type | | AGR P34 |
| | For general-purpose plants and factories | Blower type | | FV P34 |
| | | Ejector pump type | | EV P34 |

# VF-5N

**Compact dust collector**

Minisize fits securely into work bed.
Compact size and low-noise make it ideal for indoor work.

Molded filter | Manual shaking (VF-5N) | Automatic shaking (VF-5NA) | General dry dust | 6 m³/min Max. airflow

Compact body

Molded cartridge filter

## Specifications

| Model | | | VF-5N | | VF-5NA |
|---|---|---|---|---|---|
| Power supply | | | Single phase 100V or 3-phase 200V 50Hz or 60Hz (or voltage/frequency listed on product name plate) | | |
| Output | | kW | 0.4 | | |
| | | HP | 0.5 | | |
| Airflow | | m³/min | 0 | 3.5 | 6.0 |
| | | cfm | 0 | 123 | 211 |
| Static pressure [kPa] | | | 2.65 | 1.76 | 0.98 |
| Filter | Area | m² | 1.6 | | |
| | | ft² | 17.2 | | |
| | Quantity | | 1 | | |
| | Shape/Material | | Molded cartridge/Polyester Spunbond | | |
| | Dust removal | | Manual shaking | | Automatic shaking |
| Bucket capacity | | L | 6.5 | | |
| | | U.S.gallon | 1.7 | | |
| Recommended breaker [A] | | | 15 (Single-phase 100V) / 5 (3-phase 200V) | | |
| Power cord | | m | • Single-phase 100V, 2.3 (3 core with plug)<br>• 3-phase 200V, 2.7 (4 core without plug) | | |
| | | inch | • Single-phase 100V, 90 (3 core with plug)<br>• 3-phase 200V, 106 (4 core without plug) | | |
| Suction port diameter | | mm | φ63.5 | | |
| | | inch | φ2.5 | | |
| Dimensions W×D×H | | mm | 380×500×623 | | |
| | | inch | 15.0×19.7×24.6 | | |
| Weight | | kg | 43 | | 46 |
| | | lb | 95 | | 102 |
| Paint color | | | JPMA (Japan Paint Manufactuirng Association) J11-833 | | |

# IS-15

**Dust with a built-in cyclone**

Superb dust collection capability and easy handling!

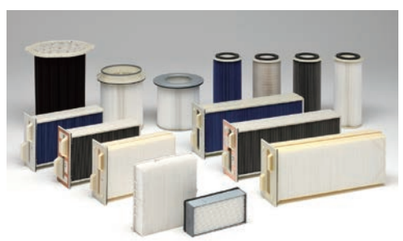
Molded filter | Manual shaking | General dry dust | 11 m³/min Max. airflow | IE3 Premium efficiency motor

Built-in cyclone

Molded cartridge filter

## Specifications

| Model | | | IS-15 | | |
|---|---|---|---|---|---|
| Power supply | | | 3-phase 200V 50/60Hz common use | | |
| Output | | kW | 0.75 | | |
| | | HP | 1 | | |
| 50Hz | Airflow | m³/min | 0 | 6.0 | 9.0 |
| | | cfm | 0 | 211 | 317 |
| | Static pressure [kPa] | | 2.0 | 1.1 | 0.4 |
| 60Hz | Airflow | m³/min | 0 | 7.5 | 11.0 |
| | | cfm | 0 | 264.8 | 388.4 |
| | Static pressure (kPa) | | 2.8 | 1.5 | 0.4 |
| Filter | Area | m² | 4.1 | | |
| | | ft² | 44.1 | | |
| | Quantity | | 1 | | |
| | Shape/Material | | Molded cartridge/Polyester Spunbond | | |
| | Dust removal | | Manual shaking | | |
| Bucket capacity | | L | 20 | | |
| | | U.S.gallon | 5.2 | | |
| Recommended breaker [A] | | | 10 | | |
| Power cord | | m | 3 (4-core, without plug) | | |
| | | inch | 118 (4-core, without plug) | | |
| Suction port diameter [mm] | | mm | φ125 | | |
| | | inch | φ5 | | |
| Dimensions W×D×H | | mm | 649×649×1462 | | |
| | | inch | 25.6×25.6×57.6 | | |
| Weight | | kg | 70 | | |
| | | lb | 155 | | |
| Paint color | | | JPMA (Japan Paint Manufactuirng Association) (Body F35-85A, Top/Bottom YN40) | | |



Molded cartridge filter has internal jet amplifier to boost the unique Amano in-house jet effect.

Hosoe Factory manufactures products under strict quantity supervision.

### Hosoe Facility

8123 Kiga, Hosoe-cho, kita-ku, Hamamatsu, Shizuoka-ken

※Performance values might change from those shown on custom order specifications.



# VNA

**Dust collector**

Standard model designed to pursue high-quality finished basic performance.

Woven filter | Manual shaking | General dry dust | 110 m³/min Max. airflow | IE3 Premium efficiency motor

Woven plate filter

## Specifications

| Model | | | VNA-15 | | | VNA-30 | | | VNA-45 | | | VNA-60 | | | VNA-120 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Power supply | | | Frequency 50Hz or 60Hz at 3-phase 200V | | | | | | | | | | | | | | |
| Output | | kW | 0.75 | | | 1.5 | | | 2.2 | | | 3.7 | | | 7.5 | | |
| | | HP | 1 | | | 2 | | | 3 | | | 5 | | | 10 | | |
| Airflow | | m³/min | 0 | 7.5 | 12 | 0 | 15 | 28 | 0 | 22 | 40 | 0 | 30 | 55 | 0 | 60 | 110 |
| | | cfm | 0 | 264 | 423 | 0 | 529 | 988 | 0 | 776 | 1412 | 0 | 1059 | 1942 | 0 | 2118 | 3884 |
| Static pressure [kPa] | | | 2.45 | 1.77 | 0.69 | 2.55 | 2.10 | 1.20 | 2.55 | 2.20 | 1.00 | 2.90 | 2.35 | 0.80 | 3.20 | 2.94 | 0.70 |
| Filter | Area | m² | 4.5 | | | 9.0 | | | 13.5 | | | 18.0 | | | 36.0 | | |
| | | ft² | 48.4 | | | 96.8 | | | 145.2 | | | 193.6 | | | 387.3 | | |
| | Quantity | | 1 | | | 2 | | | 3 | | | 4 | | | 8 | | |
| | Shape/Material | | Woven plate/ canvas | | | | | | | | | | | | | | |
| | Dust removal | | Manual shaking | | | Manual shaking (Option: Automatic shaking) | | | | | | | | | | | |
| Bucket capacity | | L | 18 | | | 25 | | | 36 | | | 50 | | | 25×4 (BS type) | | |
| | | U.S.gallon | 4.7 | | | 6.6 | | | 9.5 | | | 13.2 | | | 6.6×4 (BS type) | | |
| Recommended breaker [A] | | | 10 | | | 15 | | | 20 | | | 30 | | | 60 | | |
| Power cord | | m | 3 (4-core, without plug) | | | | | | | | | | | | Option(4-core) | | |
| | | inch | 118 (4-core, without plug) | | | | | | | | | | | | Option(4-core) | | |
| Suction port diameter | | mm | φ127 | | | φ150 | | | φ200 | | | φ200 | | | φ300 | | |
| | | inch | φ5 | | | φ6 | | | φ8 | | | φ8 | | | φ12 | | |
| Dimensions W×D×H | | mm | 650×400×1205 | | | 650×650×1492 | | | 850×650×1542 | | | 1100×700×1652 | | | 1174×1464×1796 | | |
| | | inch | 25.6×15.8×47.5 | | | 25.6×25.6×58.8 | | | 33.5×25.6×60.8 | | | 43.4×27.6×65.1 | | | 46.3×57.7×70.8 | | |
| Weight | | kg | 92 | | | 145 | | | 180 | | | 270 | | | 510 | | |
| | | lb | 203 | | | 320 | | | 397 | | | 596 | | | 1125 | | |
| Paint color | | | JPMA (Japan Paint Manufactuirng Association) J11-833 | | | | | | | | | | | | | | |

# PiF 15/30/45/60

**Energy and space-saving pulse-jet dust collector**

Auto energy-saving operation via inverter & premium efficiency motor.

Molded filter | Pulse jet | General dry dust | 60 m³/min Max. airflow | IE3 Premium efficiency motor ※Except PiF-15

Pulse jet type (By differential pressure detection)

Automatic airflow control

Molded cartridge filter (length:500mm)

- **Energy Saving**
- **Premium efficiency motor (IE3)**
- **Inverter control improves filter life**
- **Easy filter replacement**
- **Data logging function**

## Specifications

with inverter

| Model | | | PiF-15 | | | PiF-30 | | | PiF-45 | | | PiF-60 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Power supply | | | 3-phase 200V 50/60Hz common use | | | | | | | | | | | |
| Motor | Output | kW | 0.6 | | | 1.35 | | | 2.0 | | | 3.1 | | |
| | | HP | 0.8 | | | 1.8 | | | 2.6 | | | 4.1 | | |
| | Inverter | | Standard equipment | | | | | | | | | | | |
| | Efficiency | | IE2 | | | IE3 | | | | | | | | |
| Airflow | | m³/min | 0 | 10 | 18 | 0 | 20 | 30 | 0 | 30 | 45 | 0 | 40 | 60 |
| | | cfm | 0 | 353 | 635 | 0 | 706 | 1059 | 0 | 1059 | 1589 | 0 | 1412 | 2118 |
| Static pressure [kPa] | | | 2.65 | 1.80 | 0.50 | 2.65 | 2.06 | 1.08 | 2.65 | 1.96 | 0.64 | 3.00 | 2.26 | 0.98 |
| Filter | Quantity | | 2 | | | 4 | | | 6 | | | 8 | | |
| | Shape | | Molded cartridge (length:500mm) | | | | | | | | | | | |
| | Dust removal | | Automatic pulse jet (By differential pressure detection) | | | | | | | | | | | |
| | Material | | Polyester Spunbond | | | | | | | | | | | |
| | Area | m² | 6.0 | | | 12.0 | | | 18.0 | | | 24.0 | | |
| | | ft² | 64.5 | | | 129.1 | | | 193.6 | | | 258.2 | | |
| Compressed air consumption [L/min] | | | 30 | | | 36 | | | 45 | | | 67 | | |
| Diaphragm valve [pcs.] | | | 2 | | | 2 | | | 3 | | | 4 | | |
| Bucket capacity | | L | 22.5 | | | | | | 14×2 | | | 22.5×2 | | |
| | | U.S.gallon | 5.9 | | | | | | 3.6×2 | | | 5.9×2 | | |
| Recommended breaker [A] | | | 10 | | | 15 | | | 20 | | | 30 | | |
| Power cord | | m | 3 (4-core, without plug) | | | | | | | | | | | |
| | | inch | 118 (4-core, without plug) | | | | | | | | | | | |
| Suction port diameter | | mm | φ127 | | | φ150 | | | φ200 | | | φ250 | | |
| | | inch | φ5 | | | φ6 | | | φ8 | | | φ10 | | |
| Dimensions W×D×H | | mm | 520×650×1200 | | | 520×650×1617 | | | 680×650×1645 | | | 950×650×1797 | | |
| | | inch | 20.5×25.6×47.2 | | | 20.5×25.6×63.7 | | | 26.8×25.6×64.8 | | | 37.5×25.6×70.7 | | |
| Weight | | kg | 127 | | | 163 | | | 208 | | | 315 | | |
| | | lb | 280 | | | 360 | | | 459 | | | 695 | | |
| Paint color | | | JPMA (Japan Paint Manufactuirng Association) F35-85A | | | | | | | | | | | |

# PiF 75/120/150

Pulse jet type dust collector

Pulse jet type dust collector
Handles air flow of 60m³/min or more.

Pulse jet by differential pressure detection

Automatic airflow control

- **Energy Saving**
- **Premium efficiency motor(IE3)**
- **Inverter control improves filter life**
- **Easy filter replacement**
- **Oneside filter inlet**

Molded filter | Pulse jet | General dry dust | Max. airflow 180 m³/min | Premium efficiency motor

Molded cartridge filter (length:750mm)

## Specifications

with inverter

| Model | | | PiF-75 | | | PiF-120 | | | PiF-150 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Power supply | | | 3-phase 200V 50/60Hz common use | | | | | | | | |
| Motor | Output | kW | 5.5 | | | 7.5 | | | 11.0 | | |
| | | HP | 7.3 | | | 10.0 | | | 15.0 | | |
| | Inverter | | Standard equipment | | | | | | | | |
| | Efficiency | | IE3 | | | | | | | | |
| Airflow | | m³/min | 0 | 60 | 90 | 0 | 80 | 110 | 0 | 120 | 180 |
| | | cfm | 0 | 2118 | 3178 | 0 | 2825 | 3884 | 0 | 4237 | 6356 |
| Static pressure [kPa] | | | 3.10 | 2.50 | 0.70 | 3.20 | 2.50 | 0.60 | 3.10 | 2.50 | 0.70 |
| Filter | Area | m² | 38.4 | | | 57.6 | | | 86.4 | | |
| | | ft² | 413.3 | | | 620 | | | 930 | | |
| | Quantity | | 8 | | | 12 | | | 18 | | |
| | Shape / Material | | Molded cartridge (length:750mm) / Polyester spunbond | | | | | | | | |
| | Dust removal | | Automatic pulse jet (by differential pressure detection) | | | | | | | | |
| Compressed air consumption [L/min] | | | 75 | | | 86 | | | 100 | | |
| Diaphragm valve [pcs.] | | | 4 | | | 6 | | | 6 | | |
| Suction port diameter | | mm | φ300 | | | φ300 | | | φ380 | | |
| | | inch | φ12 | | | φ12 | | | φ15 | | |
| Recommended breaker [A] | | | 50 | | | 60 | | | 75 | | |
| Power cord | | | Option(4-core) | | | | | | | | |
| BO type | Dimensions W×D×H | mm | 950×950×1737 | | | 1398×950×1731 | | | 1484×1000×2439 | | |
| | | inch | 37.4×37.4×68.3 | | | 55.0×37.4×68.3 | | | 58.4×39.3×96.0 | | |
| | Weight | kg | 360 | | | 460 | | | 710 | | |
| | | lb | 794 | | | 1015 | | | 1565 | | |
| Bucket BS type | Dimensions W×D×H | mm | 950×950×1927 | | | 1398×950×2062 | | | 1484×1000×2770 | | |
| | | inch | 37.4×37.4×75.8 | | | 55.0×37.4×81.1 | | | 58.4×39.3×109.0 | | |
| | Weight | kg | 400 | | | 550 | | | 780 | | |
| | | lb | 882 | | | 1213 | | | 1719 | | |
| | Bucket capacity | L | 22.5×2 | | | 22.5×3 | | | 22.5×3 | | |
| | | U.S.gallon | 5.9×2 | | | 5.9×3 | | | 5.9×3 | | |
| Bucket BL type | Dimensions W×D×H | mm | 960×960×2419 | | | 1413×965×2382 | | | 1497×1013×3154 | | |
| | | inch | 37.8×37.8×95.2 | | | 55.6×38.0×93.7 | | | 58.9×39.9×124.1 | | |
| | Weight | kg | 460 | | | 570 | | | 810 | | |
| | | lb | 1014 | | | 1257 | | | 1785 | | |
| | Bucket capacity | L | 100 | | | 130 | | | 130 | | |
| | | U.S.gallon | 26.4 | | | 34.3 | | | 34.3 | | |
| Hopper F type | Dimensions W×D×H | mm | 962×962×3538 | | | 1410×962×3832 | | | 1496×1012×4710 | | |
| | | inch | 37.9×37.9×139.2 | | | 55.5×37.9×150.8 | | | 58.9×39.8×185.4 | | |
| | Weight | kg | 640 | | | 820 | | | 1090 | | |
| | | lb | 1411 | | | 1808 | | | 2403 | | |
| | Hopper capacity | L | 314 | | | 610 | | | 778 | | |
| | | U.S.gallon | 85.2 | | | 161.1 | | | 205.5 | | |
| Paint color | | | JPMA (Japan Paint Manufacturing Association) F35-85A | | | | | | | | |

# PiF 200/300

Pulse jet type dust collector

Pulse jet type dust collector
Handles air flow of 160m³/min or more.

Pulse jet by differential pressure detection

Automatic airflow control

Molded filter | Pulse jet | General dry dust | Max. airflow 290 m³/min | Premium efficiency motor

Molded cartridge filter (length:750mm)

- **Energy Saving**
- **Premium efficiency motor(IE3)**
- **Inverter control improves filter life**
- **Easy filter replacement**
- **Oneside filter inlet**

## Specifications

with inverter

| Model | | | PiF-200 | | | PiF-300 | | |
|---|---|---|---|---|---|---|---|---|
| Power supply | | | 3-phase 200V 50/60Hz common use | | | | | |
| Motor | Output | kW | 15.0 | | | 22.0 | | |
| | | HP | 20.0 | | | 30.0 | | |
| | Inverter | | Standard equipment | | | | | |
| | Efficiency | | IE3 | | | | | |
| Airflow | | m³/min | 0 | 160 | 190 | 0 | 240 | 290 |
| | | cfm | 0 | 5650 | 6709 | 0 | 8475 | 10238 |
| Static pressure [kPa] | | | 4.00 | 2.40 | 0.40 | 4.00 | 2.40 | 0.40 |
| Filter | Area | m² | 115.2 | | | 172.8 | | |
| | | ft² | 1240 | | | 1860 | | |
| | Quantity | | 24 | | | 36 | | |
| | Shape / Material | | Molded cartridge (length:750mm) / Polyester spunbond | | | | | |
| | Dust removal | | Automatic pulse jet (by differential pressure detection) | | | | | |
| Compressed air consumption [L/min] | | | 100 | | | 100 | | |
| Diaphragm valve [pcs.] | | | 8 | | | 12 | | |
| Suction port diameter | | mm | φ450 | | | φ580 | | |
| | | inch | φ17.8 | | | φ22.9 | | |
| Recommended breaker [A] | | | 125 | | | 175 | | |
| Power cord | | | Option (4-core) | | | | | |
| Bucket BL type | Dimensions W×D×H | mm | 2132×1130×3667 | | | 3028×1230×3922 | | |
| | | inch | 83.9×44.5×144.4 | | | 119.2×48.4×154.4 | | |
| | Weight | kg | 1270※1 | | | 1840※2 | | |
| | | lb | 2800※1 | | | 4057※2 | | |
| | Bucket capacity | L | 200 (100×2) | | | 260 (130×2) | | |
| | | U.S.gallon | 52.8 (26.4×2) | | | 68.7 (34.3×2) | | |
| Paint color | | | JPMA (Japan Paint Manufacturing Association) F35-85A | | | | | |

※1 Self-standing electrical box (120kg/264.5lb) is not included.
※2 Self-standing electrical box (130kg/286.6lb) is not included.

※Performance values might change from those shown on custom order specifications.



# VF-2S

Small high-pressure dust collector

24 hour continuous operation.

- **Compact**
- **High static pressure 20 kPa**
- **Energy Saving**

Molded filter | Manual shaking | General dry dust | Max. airflow 2.7 m³/min

Molded cartridge filter

**Strong suction power**

Powerful vacuum about 7 times greater than our small-size VF-5N dust collector.

## Specifications

| Model | | | VF-2S | |
|---|---|---|---|---|
| Power supply | | | 3-phase 200V 50/60Hz common use<br>Single-phase 100V (both 50/60Hz) available for special orders | |
| Output | | kW | 1.0 | |
| | | HP | 1.3 | |
| Blower motor | | | Brushless blower motor | |
| Max. Airflow | | m³/min | 2.7±0.3 (200V 3-phase) | 2.5±0.3 (100V single-phase) |
| | | cfm | 95±10 (200V 3-phase) | 88±10 (100V single-phase) |
| Max. static pressure [kPa] | | | 20.0±3.0 (200V 3-phase) | 17.0±2.3 (100V single-phase) |
| Filter | Area | m² | 0.67 | |
| | | ft² | 7.2 | |
| | Quantity | | 1 | |
| | Shape/Material | | Molded cartridge/ Polyester Spunbond | |
| | Dust removal | | Manual shaking | |
| Bucket capacity | | L | 2.2 | |
| | | U.S.gallon | 0.58 | |
| Recommended breakers [A] | | | 10 (200V 3-phase) | 15 (100V single-phase) |
| Power cord | | m | 2.8 (without plug) | |
| | | inch | 110 (without plug) | |
| Suction port diameter | | mm | φ50.8 | |
| | | inch | φ2 | |
| Dimensions W×D×H | | mm | 395×342×399 | |
| | | inch | 15.6×13.5×15.8 | |
| Weight | | kg | 26 (3-phase 200V specification) | 29 (Single-phase 100V specification) |
| | | lb | 58 (3-phase 200V specification) | 64 (Single-phase 100V specification) |
| Paint color | | | JPMA (Japan Paint Manufactuirng Association) F35-85A | |

# Mi/Mi-H

Medium pressure dust collector

Medium-pressure & medium air flow model.
Simultaneously suctions in suspended particulates,
high-speed dispersed powder, and heavy cutting chip.

Molded filter | Pulse jet | General dry dust | Max. airflow 28 m³/min

Molded cartridge filter

## Specifications

with inverter

| Model | | | Mi-204 | | | Mi-306 | | | Mi-508 | | | Mi-202 | | | Mi-304 | | | Mi-506 | | | Mi-302H | | | Mi-504H | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pressure at operating point | | | 4.0kPa type | | | | | | | | | 6.0kPa type | | | | | | | | | 10.0kPa type | | | | | |
| Power supply | | | 3-phase 200V 50/60Hz common use | | | | | | | | | 3-phase 200V 50/60Hz common use | | | | | | | | | 3-phase 200V 50/60Hz common use | | | | | |
| Output | | kW | 1.5 | | | 2.2 | | | 3.7 | | | 1.5 | | | 2.2 | | | 3.7 | | | 2.2 | | | 3.7 | | |
| | | HP | 2 | | | 3 | | | 5 | | | 2 | | | 3 | | | 5 | | | 3 | | | 5 | | |
| Airflow | | m³/min | 0 | 10.5 | 14 | 0 | 16 | 21 | 0 | 24 | 28 | 0 | 5.5 | 8.5 | 0 | 9 | 11.5 | 0 | 13.5 | 16 | 0 | 4.5 | 7 | 0 | 8 | 11 |
| | | cfm | 0 | 370 | 494 | 0 | 565 | 741 | 0 | 847 | 988 | 0 | 194 | 300 | 0 | 317 | 406 | 0 | 476 | 565 | 0 | 158 | 247 | 0 | 282 | 388 |
| Static pressure [kPa] | | | 5.39 | 3.92 | 1.96 | 6.08 | 3.92 | 1.96 | 6.37 | 3.92 | 1.96 | 7.65 | 5.88 | 2.94 | 8.34 | 5.88 | 2.94 | 9.32 | 5.88 | 2.94 | 13.0 | 9.81 | 5.88 | 13.8 | 9.81 | 5.88 |
| Filter | Area | m² | 9.0 | | | 13.5 | | | 18.0 | | | 4.5 | | | 9.0 | | | 13.5 | | | 4.5 | | | 9.0 | | |
| | | ft² | 96.8 | | | 145.2 | | | 193.6 | | | 48.4 | | | 96.8 | | | 145.2 | | | 48.4 | | | 96.8 | | |
| | Quantity | | 4 | | | 6 | | | 8 | | | 2 | | | 4 | | | 6 | | | 2 | | | 4 | | |
| | Shape | | Molded cartridge | | | | | | | | | Molded cartridge | | | | | | | | | Molded cartridge | | | | | |
| | Material | | Polyester Spunbond | | | | | | | | | Polyester Spunbond | | | | | | | | | Polyester Spunbond | | | | | |
| | Dust removal | | Automatic pulse jet (At regular interval) | | | | | | | | | Automatic pulse jet (At regular interval) | | | | | | | | | Automatic pulse jet (At regular interval) | | | | | |
| Compressed air consumption [L/min] | | | 17 | | | 25 | | | 33 | | | 9 | | | 17 | | | 25 | | | 9 | | | 17 | | |
| Diaphragm valve [pcs.] | | | 2 | | | 3 | | | 4 | | | 2 | | | | | | 3 | | | 2 | | | | | |
| Bucket capacity | | L | 25 | | | 35 | | | 25×2 | | | 14 | | | 25 | | | 35 | | | 14 | | | 25 | | |
| | | U.S.gallon | 6.6 | | | 9.2 | | | 6.6×2 | | | 3.6 | | | 6.6 | | | 9.2 | | | 3.6 | | | 6.6 | | |
| Recommended breakers | | | Standard equipment | | | | | | | | | Standard equipment | | | | | | | | | Standard equipment | | | | | |
| Power cord | | m | 3 (4-core, without plug) | | | | | | | | | 3 (4-core, without plug) | | | | | | | | | 3 (4-core, without plug) | | | | | |
| | | inch | 118 (4-core, without plug) | | | | | | | | | 118 (4-core, without plug) | | | | | | | | | 118 (4-core, without plug) | | | | | |
| Suction port diameter | | mm | φ100 | | | φ125 | | | φ150 | | | φ100 | | | | | | φ125 | | | φ100 | | | | | |
| | | inch | φ4 | | | φ5 | | | φ6 | | | φ4 | | | | | | φ5 | | | φ4 | | | | | |
| Dimensions W×D×H | | mm | 1200×600×1150 | | | 1470×700×1180 | | | 1770×700×1180 | | | 1000×600×1150 | | | 1200×600×1150 | | | 1470×700×1180 | | | 1000×600×1150 | | | 1200×600×1150 | | |
| | | inch | 47.3×23.7×45.3 | | | 57.9×27.6×46.5 | | | 69.7×27.6×46.5 | | | 39.4×23.7×45.3 | | | 47.3×23.7×45.3 | | | 57.9×27.6×46.5 | | | 39.4×23.7×45.3 | | | 47.3×23.7×45.3 | | |
| Weight | | kg | 270 | | | 340 | | | 420 | | | 240 | | | 280 | | | 350 | | | 250 | | | 290 | | |
| | | lb | 596 | | | 750 | | | 927 | | | 530 | | | 618 | | | 772 | | | 552 | | | 640 | | |
| Paint color | | | JPMA (Japan Paint Manufactuirng Association) J11-833 | | | | | | | | | JPMA (Japan Paint Manufactuirng Association) J11-833 | | | | | | | | | JPMA (Japan Paint Manufactuirng Association) J11-833 | | | | | |

# IP/IX/IB

**High pressure dust collector**

Handles ranging from common powder to toner.
Layout-free model has a separate filter unit and blower unit.

**IP** — Molded filter / Pulse jet / General dry dust / Max. airflow 6 m³/min

**IX** — Resin filter / Pulse jet / Fine powder / Max. airflow 6 m³/min

Standard filter (Polyester)

Resin filter (Polyethylene)

### Filter Unit Specifications

| Model | | | IP-3 | IP-3D | IX-3 | IX-3D | IP-5 | IP-5D | IX-5 | IX-5D |
|---|---|---|---|---|---|---|---|---|---|---|
| Power supply | | | 3-phase 200V 50/60Hz common use | | | | | | | |
| Filter | Area | m² | 3.5 | | 3.2 | | 4.7 | | 4.8 | |
| | | ft² | 37.6 | | 34.4 | | 50.5 | | 51.6 | |
| | Quantity | | 3 | | 27 | | 3 | | 27 | |
| | Shape | | Molded cartridge | | | | | | | |
| | Material | | Polyester | | polyethylene | | Polyester | | polyethylene | |
| | Dust removal | | Automatic pulse jet (At fixed interval) | | | | | | | |
| Diaphragm valve [pcs.] | | | 3 | | | | | | | |
| Compressed air consumption [L/min] | | | 5.4～15.0 | | 8.5～30.0 | | 5.4～15.0 | | 8.5～30.0 | |
| Suction port diameter | | mm | Φ50.8 | | | | Φ63.5 | | | |
| | | inch | Φ2 | | | | Φ2.5 | | | |
| Exhaust port diameter | | mm | Φ76.3 | | | | | | | |
| | | inch | Φ3 | | | | | | | |
| Method of standard discharge | | | Bucket tank | | Discharge valve | | Bucket tank | | Discharge valve | |
| Bucket capacity | | L | 30 | | – | | 30 | | – | |
| | | U.S.gallon | 7.9 | | – | | 7.9 | | – | |
| Dimensions | mm | W | 653 | 881 | 651 | 879 | 653 | 881 | 651 | 879 |
| | | D | 658 | 658 | 654 | 654 | 658 | 658 | 654 | 654 |
| | | H | 1409 | 1537 | 1568 | 1696 | 1609 | 1737 | 1768 | 1896 |
| | inch | W | 25.8 | 34.7 | 25.7 | 34.7 | 25.8 | 34.7 | 25.7 | 34.7 |
| | | D | 26.0 | 26.0 | 25.8 | 25.8 | 26.0 | 26.0 | 25.8 | 25.8 |
| | | H | 55.5 | 60.6 | 61.8 | 66.8 | 63.4 | 68.4 | 69.7 | 74.7 |
| Weight | kg | | 65 | 83 | 65 | 83 | 70 | 88 | 70 | 88 |
| | lb | | 144 | 184 | 144 | 184 | 155 | 195 | 155 | 195 |
| Paint color | | | JPMA (Japan Paint Manufactuirng Association) (Body F35-85A, Top/Bottom YN40) | | | | | | | |

### Blower Unit Specifications

| Model | | | IB-3 | IB-4 | IB-5 | IB-3D | IB-5D |
|---|---|---|---|---|---|---|---|
| | | | Standard motor type (with inverter) | | | Explosion-proof sealed motor type (without inverter) | |
| Power supply | | | 3-phase 200V 50/60Hz common use | | | Frequency 50Hz or 60Hz at 3-phase 200V | |
| Output | kW | | 1.5 | 3.7 | 5.5 | 2.2 | 5.5 |
| | HP | | 2 | 4 | 7.3 | 3 | 7.3 |
| Airflow | m³/min | | 0 3 | 0 4 | 5 0 5 6 | 0 3 | 5 0 3 5 |
| | cfm | | 0 105 | 0 141 | 176 0 176 211 | 0 105 | 176 0 105 176 |
| Static pressure [kPa] | | | 13 12.5 | 23.5 21 | 18.5 27 22 18.5 | 12 11.2 | 9.5 22 20 13.5 |
| Suction port diameter | mm | | Φ76.3 | | | Φ76.3 | |
| | inch | | Φ3 | | | Φ3 | |
| Exhaust port diameter | mm | | – | | | Φ127 | |
| | inch | | – | | | Φ5 | |
| Recommended breaker [A] | | | 15 | 30 | 50 | 20 | 50 |
| Power cord | | | Option (4-core) | | | Option (4-core) | |
| Accessories | | | Hose 1 meter (specify length) | | | Hose 1 meter (specify length) | |
| Dimensions | mm | W | 700 | 700 | 700 | 600 | 750 |
| | | D | 500 | 500 | 500 | 430 | 520 |
| | | H | 608 | 850 | 850 | 776 | 866 |
| | inch | W | 27.6 | 27.6 | 27.6 | 23.7 | 29.6 |
| | | D | 19.7 | 19.7 | 19.7 | 17.0 | 20.5 |
| | | H | 24.0 | 33.5 | 33.5 | 30.6 | 34.1 |
| Weight | kg | | 90 | 130 | 155 | 105 | 187 |
| | lb | | 199 | 287 | 342 | 232 | 413 |
| Paint color | | | JPMA (Japan Paint Manufactuirng Association) F35-85A | | | JPMA (Japan Paint Manufactuirng Association) F35-85A | |

# SP

**All-stainless steel body dust collector**

Easy filter installation and removal by lever operation.
Excellent internal cleansing in main unit.

Water-washable filters available

Woven filter / Manual shaking / General dry dust / Max. airflow 55 m³/min / Premium efficiency motor IE3

※HEPA filter box, casters, suction straight inlet pipe available as options.

Woven plate filter

### Specifications

| Model | | | SP-15 | | | SP-30 | | | SP-45 | | | SP-60 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Power supply | | | Frequency 50Hz or 60Hz at 3-phase 200V | | | | | | | | | | | |
| Output | | kW | 0.75 | | | 1.5 | | | 2.2 | | | 3.7 | | |
| | | HP | 1 | | | 2 | | | 3 | | | 5 | | |
| Airflow | | m³/min | 0 | 7.5 | 12.0 | 0 | 15.0 | 28.0 | 0 | 22.0 | 40.0 | 0 | 30.0 | 55.0 |
| | | cfm | 0 | 264 | 423 | 0 | 529 | 988 | 0 | 776 | 1412 | 0 | 1059 | 1942 |
| Static pressure [kPa] | | | 2.45 | 1.70 | 0.69 | 2.55 | 2.26 | 1.27 | 2.55 | 2.35 | 1.37 | 2.90 | 2.55 | 1.22 |
| Filter | Area | m² | 4.5 | | | 9.0 | | | 13.5 | | | 18.0 | | |
| | | ft² | 48.4 | | | 96.8 | | | 145.2 | | | 193.6 | | |
| | Quantity | | 1 (holds 10 pieces) | | | 2 (holds 20 pieces) | | | 3 (holds 30 pieces) | | | 4 (holds 40 pieces) | | |
| | Shape/Material | | Woven plate/polyester (water-washable) | | | | | | | | | | | |
| | Dust removal | | Manual shaking | | | | | | | | | | | |
| Material [body/fan] | | | SUS304/aluminum | | | SUS304/iron | | | | | | | | |
| Bucket capacity | | L | 21 | | | 21 | | | 21×2 | | | 21×2 | | |
| | | U.S.gallon | 5.5 | | | 5.5 | | | 5.5×2 | | | 5.5×2 | | |
| Recommended breakers [A] | | | 10 | | | 15 | | | 20 | | | 30 | | |
| Power cord | | m | 2.8 (4-core, without plug) | | | | | | | | | | | |
| | | inch | 110 (4-core, without plug) | | | | | | | | | | | |
| Suction port diameter | | mm | Φ127 | | | Φ150 | | | Φ200 | | | Φ200 | | |
| | | inch | Φ5 | | | Φ6 | | | Φ8 | | | Φ8 | | |
| Dimensions W×D×H | mm | Standard type | 400×650×1207 | | | 650×650×1469 | | | 850×650×1497 | | | 1180×650×1660 | | |
| | | HEPA filter type | 400×650×1500 | | | 650×650×1740 | | | 850×650×1808 | | | 1180×650×1981 | | |
| | inch | Standard type | 15.8×25.6×47.6 | | | 25.6×25.6×57.9 | | | 33.5×25.6×59.0 | | | 46.5×25.6×65.4 | | |
| | | HEPA filter type | 15.8×25.6×59.1 | | | 25.6×25.6×68.6 | | | 33.5×25.6×71.2 | | | 46.5×25.6×78.0 | | |
| Weight | | kg | 92 | | | 145 | | | 185 | | | 250 | | |
| | | lb | 203 | | | 320 | | | 408 | | | 552 | | |

# FP-N

**All-stainless steel body medium pressure dust collector**

Water washable filter box interior.
Hygienic design helps prevent dust from accumulating on the inside of a dust collector.

**Standard filter type** — Molded filter / Pulse jet / General dry dust / Max. airflow 10 m³/min

**Resin filter type** — Resin filter / Pulse jet / Fine powder / Max. airflow 8 m³/min

For Pharmaceutical and Food factories

Standard filter (Polyester)

Resin filter (Polyethylene)

### Specifications

with inverter

| Model | | FP-5N | | | | | | FP-10N | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Filter type | | Standard filter | | | Resin filter | | | Standard filter | | | Resin filter | | |
| Power supply | | 3-phase 200V 50/60Hz common use | | | | | | | | | | | |
| Output | kW | 1.5 | | | | | | 2.2 | | | | | |
| | HP | 2 | | | | | | 3 | | | | | |
| Airflow | m³/min | 0 | 5.0 | 8.0 | 0 | 3.2 | 6.0 | 0 | 8.0 | 10.0 | 0 | 6.5 | 8.0 |
| | cfm | 0 | 176 | 282 | 0 | 113 | 211 | 0 | 282 | 353 | 0 | 229 | 282 |
| Static pressure [kPa] | | 8.5 | 5.5 | 3.2 | 8.5 | 6.1 | 3.1 | 8.5 | 5.5 | 3.4 | 8.5 | 5.6 | 4.2 |
| Filter | Area m² | 4.5 | | | 2.6 | | | 4.5 | | | 5.2 | | |
| | Area ft² | 48.4 | | | 27.9 | | | 48.4 | | | 55.9 | | |
| | Quantity | 2 | | | 4 | | | 2 | | | 8 | | |
| | Shape | Molded cartridge | | | | | | | | | | | |
| | Material | Polyester Spunbond | | | Polyethylene | | | Polyester Spunbond | | | Polyethylene | | |
| | Dust removal | Auto pulse jet (fixed gap [pressure differential detector as an option]) | | | | | | | | | | | |
| Compressed air consumption [L/min] | | 20 | | | | | | 30 | | | | | |
| Diaphragm valve [pcs.] | | 2 | | | | | | | | | | | |
| Exterior finish | | All SUS electrolytic grinding finish | | | | | | | | | | | |
| Bucket capacity | L | 20 | | | | | | | | | 37 | | |
| | U.S.gallon | 5.2 | | | | | | | | | 9.7 | | |
| Recommended breakers [A] | | 15 | | | | | | 20 | | | | | |
| Power cord | | Option (4-core) | | | | | | | | | | | |
| Suction port diameter | mm | Φ100 | | | | | | | | | | | |
| | inch | Φ4 | | | | | | | | | | | |
| Dimensions W×D×H | mm | 617×966×1488 | | | 617×966×1472 | | | 617×966×1488 | | | 753×1071×1473 | | |
| | inch | 24.3×38.1×58.6 | | | 24.3×38.1×58 | | | 24.3×38.1×58.6 | | | 29.7×42.2×58 | | |
| Weight | kg | 190 | | | 195 | | | 200 | | | 230 | | |
| | lb | 419 | | | 430 | | | 441 | | | 508 | | |

# FPV-2S

**All-stainless steel body small-size high-pressure dust collector**

Easily-washable high-pressure vacuum unit.

Molded filter / Resin filter / Pulse jet / Fine powder / Max. airflow 2.7 m³/min

High static pressure 20 kPa

Resin filter (Polyethylene)

Molded cartridge filter

### Filter Unit Specifications

| Power supply | | | 3-phase 200V 50/60Hz common use |
|---|---|---|---|
| Filter | Area | m² | 1.07 |
| | | ft² | 11.5 |
| | Quantity | | 9 |
| | Shape | | Molded cartridge |
| | Material | | Polyethylene |
| | Dust removal | | Manual pulse jet ※ |
| Bucket capacity | | L | 14 |
| | | U.S.gallon | 3.6 |
| Suction port diameter | | | IDF standard ferrule 2S |
| Exhaust port diameter | | | IDF standard ferrule 2S |
| Dimensions W×D×H | | mm | 550×514×892 |
| | | inch | 21.7×20.3×35.2 |
| Material surface treatment | | | SUS304 equiv. inner/outersurface buff#400 |

※Compressed air is fed by ball valve (manual). Exhaust of air-blow is a condition for backwash.

### Blower Unit Specifications

| Power supply | | | 3-phase 200V 50/60Hz common use |
|---|---|---|---|
| Output | | kW | 1.0 |
| | | HP | 1.3 |
| Blower motor | | | Brushless blower motor |
| Max. airflow | | m³/min | 2.7±0.3 |
| | | cfm | 95±10 |
| Max. static pressure [kPa] | | | 20.0±3.0 |
| Filter | Area | m² | 0.67 |
| | | ft² | 7.2 |
| | Quantity | | 1 |
| | Shape | | Molded cartridge |
| | Material | | Polyester Spunbond |
| | Dust removal | | Manual shaking |
| Bucket capacity | | L | 2.2 |
| | | U.S.gallon | 0.58 |
| Recommended breakers [A] | | | 10 |
| Power cord | | m | 2.8 (4-core, without plug) |
| | | inch | 110 (4-core, without plug) |
| Dimensions W×D×H | | mm | 395×342×591 |
| | | inch | 15.6×13.5×23.3 |
| Weight | | kg | Approximately 31 |
| | | lb | Approximately 69 |
| Material surface treatment | | | Exterior and coupling section are SUS304 |

※Performance values might change from those shown on custom order specifications.

# FCN

**Dust collector for welding work**

Welding work dust collector with fire control function.

- **Smoke sensor**
- **Spark sensor**
- **Pre-dust box**

Molded filter | Pulse jet | Fumes | 45 m³/min Max. airflow | IE3 Premium efficiency motor

Molded cartridge filter

### Specifications

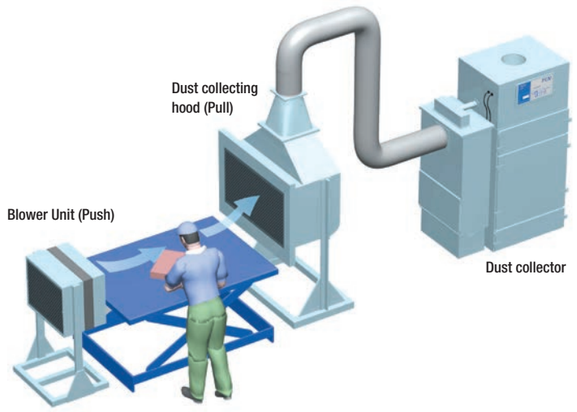
| Model | | | FCN-30 | | | FCN-45 | | | FCN-60 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Power supply | | | Frequency 50Hz or 60Hz at 3-phase 200V | | | | | | | | |
| Output | | kW | 1.5 | | | 2.2 | | | 3.7 | | |
| | | HP | 2 | | | 3 | | | 5 | | |
| Airflow | | m³/min | 0 | 12 | 18 | 0 | 20 | 30 | 0 | 30 | 45 |
| | | cfm | 0 | 423 | 635 | 0 | 706 | 1059 | 0 | 1059 | 1589 |
| Static pressure [kPa] | | | 2.55 | 1.72 | 0.75 | 2.55 | 2.22 | 1.30 | 2.84 | 2.20 | 1.00 |
| Filter | Area | m² | 27.0 | | | 40.5 | | | 60.8 | | |
| | | ft² | 290.5 | | | 435.7 | | | 654.2 | | |
| | Quantity | | 4 | | | 6 | | | 9 | | |
| | Shape | | Molded cartridge (length:750mm, 132-ridge Φ200 cylinder type) | | | | | | | | |
| | Material | | Polyester Spunbond | | | | | | | | |
| | Dust removal | | Automatic pulse jet (At fixed interval) | | | | | | | | |
| Diaphragm valve [pcs.] | | | 2 | | | 3 | | | 3 | | |
| Compressed air consumption [L/min] | | | 20 | | | 30 | | | 40 | | |
| Bucket capacity | L | Bottom part of separation box | 16 | | | 30 | | | 44 | | |
| | | Bottom part of dust collector | 25 | | | 18×2 | | | 20×2 | | |
| | U.S.gallon | Bottom part of separation box | 4.2 | | | 7.9 | | | 11.6 | | |
| | | Bottom part of dust collector | 6.6 | | | 4.7×2 | | | 5.2×2 | | |
| Recommended breakers [A] | | | 15 | | | 20 | | | 30 | | |
| Power cord | | m | 3 (4-core, without plug) | | | | | | | | |
| | | inch | 118 (4-core, without plug) | | | | | | | | |
| Suction port diameter | | mm | Φ150 | | | Φ200 | | | Φ250 | | |
| | | inch | Φ6 | | | Φ8 | | | Φ10 | | |
| Dimensions W×D×H | | mm | 998×651×1817 | | | 1268×660×1827 | | | 1358×840×1897 | | |
| | | inch | 39.3×25.7×71.6 | | | 50.0×26.0×72.0 | | | 53.5×33.1×74.7 | | |
| Weight | | kg | 245 | | | 305 | | | 430 | | |
| | | lb | 541 | | | 673 | | | 949 | | |
| Paint color | | | JPMA (Japan Paint Manufactuirng Association) J11-833 | | | | | | | | |

# HF

**Push Pull hood**

Push pull dust collecting system.

Energy Saving and Compact type




### Specifications

| Model | | | HF-45 | HF-60 | HF-75 | HF-150 |
|---|---|---|---|---|---|---|
| Blower Unit | Power supply | | 3-phase 200V 50/60Hz common use | | | |
| | Output | kW | 0.15 | 0.2 | 0.2 | 0.75 |
| | | HP | 0.2 | 0.26 | 0.26 | 1 |
| | Effective outlet area | m² | 0.22 | 0.33 | 0.60 | 1.20 |
| | | ft² | 2.3 | 3.5 | 6.4 | 12.9 |
| | Size of supply opening | mm | 474×474 | 574×574 | 574×1044 | 1044×1154 |
| | | inch | 18.7×18.7 | 22.6×22.6 | 22.6×41.2 | 41.2×45.5 |
| | Range of injection velocity [m/s] [50/60Hz] | | 0.5～2.1/2.5 | 0.5～2.3/2.8 | 0.5～1.6/1.9 | 0.5～1.9/2.2 |
| | Range of injection airflow [50/60Hz] | m³/min | 6.7～28.3/33.7 | 9.9～45.5/55.4 | 18.0～57.5/68.3 | 36.1～137.3/159.0 |
| | | cfm | 236～999/1190 | 349～1606/1956 | 635～2030/2411 | 1274～4848/5615 |
| | Weight | kg | 61 | 76 | 126 | 221 |
| | | lb | 135 | 168 | 278 | 488 |
| | Paint color | | JPMA (Japan Paint Manufactuirng Association) J11-833 | | | |
| Dust collecting hood | Effective suction area | m² | 0.32 | 0.45 | 0.78 | 1.74 |
| | | ft² | 3.4 | 4.8 | 8.3 | 18.7 |
| | Size of suction opening | mm | 570×570 | 690×690 | 690×1140 | 1254×1386 |
| | | inch | 22.5×22.5 | 27.2×27.2 | 27.2×44.9 | 49.4×54.6 |
| | Dust collection airflow | m³/min | 63 | 91 | 163 | 367 |
| | | cfm | 2224 | 3213 | 5756 | 12960 |
| | Weight | kg | 70 | 95 | 175 | 250 |
| | | lb | 155 | 210 | 386 | 552 |
| | Paint color | | JPMA (Japan Paint Manufactuirng Association) J11-833 | | | |

# FD-10

**Welding work dust collector with swing arm**

Dust collector for welding work.

- **Swing arm**
- **Caster**
- **Fire extinguishing mechanism**

Molded filter | Manual shaking | Fumes | 9 m³/min Max. airflow | IE3 Premium efficiency motor

Molded cartridge filter

### Specifications

| Model | | | FD-10 |
|---|---|---|---|
| Power supply | | | Frequency 50Hz or 60Hz at 3-phase 200V |
| Output | | kW | 0.75 |
| | | HP | 1 |
| Max. airflow | | m³/min | 9.0 |
| | | cfm | 317 |
| Max. static pressure [kPa] | | | 2.5 |
| Filter | Area | m² | 20.0 |
| | | ft² | 215.2 |
| | Quantity | | 2 |
| | Shape/Material | | Molded cartridge / nanofiber |
| | Dust removal | | Manual shaking |
| Suction port diameter | | mm | Φ160 |
| | | inch | Φ6.3 |
| Recommended breakers [A] | | | 10 |
| Power cord | | m | 5 (4-core, without plug) |
| | | inch | 196 (4-core, without plug) |
| Dimensions | | mm | 710×868×985 |
| | | inch | 28.0×34.2×38.8 |
| Weight | | kg | 152 |
| | | lb | 336 |
| Paint color | | | JPMA (Japan Paint Manufactuirng Association) J11-833 |

# VF-5HG

**Laser marker dedicated dust collector (with deodorizing function)**

The "Ace" among laser marking dust collectors.
Long filter life by fixed regulation of auto air flow (capacity).

With deodorizing function | Automatic air flow control

Electret filter

Activated carbon box

Electret filter | Fumes | 3 m³/min Max. airflow

### Specifications

| Model | | | VF-5HG | |
|---|---|---|---|---|
| Power supply | | | 3-phase 200V | single-phase 100V |
| | | | 50/60Hz common use | |
| Output | | kW | 1.1 | 0.875 |
| | | HP | 1.4 | 1.1 |
| Blower motor | | | Brushless blower motor | |
| Max. airflow | | m³/min | 3.0±0.3 | 2.8±0.3 |
| | | cfm | 105±10 | 98±10 |
| Max. static pressure [kPa] | | | 20±3.0 | 17±2.3 |
| Filter | Filtration method | | Internal surface filtration | |
| | Area | m² | 2.3 | |
| | | ft² | 24.7 | |
| | Internal volume | L | Approximately 15 | |
| | | U.S.gallon | Approximately 3.9 | |
| | Quantity | | 1 | |
| | Material | | electret nonwoven fabric | |
| Deodorant | | | Activated carbon [20L(8.4kg)] | |
| Recommended breakers [A] | | | 10 | 15 |
| Power cord | | m | 2.8 (without plug) | |
| | | inch | 110 (without plug) | |
| Suction port diameter | | mm | Option (uses Φ38.Φ50.Φ65) | |
| | | inch | Option (uses Φ1.5.Φ2.0.Φ2.6) | |
| Dimensions W×D×H | | mm | 440×488×798 | |
| | | inch | 17.4×19.3×31.5 | |
| Weight | | kg | 78 | |
| | | lb | 172 | |
| External plate material | | | Iron structure : finish coating JPMA (Japan Paint Manufactuirng Association) F35-85A<br>Stainless steel: hairline finish | |
| Operation control | | | Auto constant air flow control (adjustable range 0.4 to 2.2 m³/min) | |

※Performance values might change from those shown on custom order specifications.

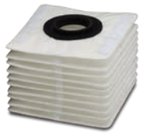
# VF-5HN

**Laser marker dedicated dust collector (with deodorizing function)**

Low-cost laser marker dust collector.

Electret filter | Fumes | Max. airflow 3.6 m³/min

With deodorizing function



Electret filter

Activated carbon box

### Specifications

| Model | | | VF-5HN | |
|---|---|---|---|---|
| Power supply | | | 3-phase 200V | single-phase 100V |
| | | | Frequency 50Hz or 60Hz | |
| Output | | kW | 0.4 | |
| | | HP | 0.5 | |
| Max. airflow | | m³/min | 3.6±0.2 | |
| | | cfm | 127±10 | |
| Max. static pressure [kPa] | | | 2.65 | |
| Filter | Filtration method | | Internal surface filtration | |
| | Area | m² | 2.3 | |
| | | ft² | 24.7 | |
| | Internal volume | L | 15 | |
| | | U.S.gallon | 3.9 | |
| | Quantity | | 1 | |
| | Material | | Electret nonwoven fabric | |
| Deodorant | | | Activated carbon [20L(10kg)] | |
| Recommended breakers [A] | | | 5 | 15 |
| Power cord | | m | 2.3 (with plug) | |
| | | inch | 90 (with plug) | |
| Suction port diameter | | mm | Option (uses Φ65.Φ75.Φ100) | |
| | | inch | Option (uses Φ2.6.Φ3.0.Φ4.0) | |
| Dimensions W×D×H | | mm | 400×400×779 | |
| | | inch | 15.8×15.8×30.7 | |
| Weight | | kg | 53 | |
| | | lb | 117 | |
| Paint color | | | JPMA (Japan Paint Manufactuirng Association) F35-85A | |

# VF-5H

**Laser marker dedicated dust collector (with deodorizing function)**

Zeolite precoating function delivers stable collection of fumes that tend to adhere to surfaces of filter.

Molded filter | Automatic shaking | Fumes | Max. airflow 1.6 m³/min

With deodorizing function

Molded cartridge filter

Powdered Filter aid (ZEOPOWER)

### Specifications

| Model | | | VF-5H |
|---|---|---|---|
| Power supply | | | Frequency 50Hz or 60Hz at single-phase 100V |
| Output | | kW | 0.4 |
| | | HP | 0.5 |
| Max. airflow | | m³/min | 1.6 |
| | | cfm | 56 |
| Max. static pressure [kPa] | | | 2.5 |
| Filter | Area | m² | 1.6 |
| | | ft² | 17.2 |
| | Quantity | | 1 |
| | Shape/Material | | Molded cartridge / Polyester Spunbond |
| | Dust removal | | Automatic shaking |
| Deodorant | | | Activated carbon (10kg) |
| Filter aid [ZEOPOWER] | | kg | 1.6 |
| | | lb | 3.6 |
| Bucket capacity | | L | 3 |
| | | U.S.gallon | 0.8 |
| Recommended breakers [A] | | | 15 |
| Power cord [m] | | m | 2.3 (2-core, with plug) |
| | | inch | 90 (2-core, with plug) |
| Suction port diameter | | mm | Φ50 |
| | | inch | Φ2 |
| Dimensions W×D×H | | mm | 380×500×846 |
| | | inch | 15.0×19.7×33.4 |
| Weight | | kg | 66.8 |
| | | lb | 148 |
| Paint color | | | JPMA (Japan Paint Manufactuirng Association) J11-833 |

# PiH

**Laser marking dust collector**

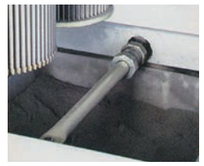
Zeolite precoating function delivers stable collection of fumes that tend to adhere to surfaces of filter.

Molded filter | Pulse jet | Fumes | Max. airflow 26 m³/min | Premium efficiency motor IE3

With deodorizing function

Molded cartridge filter

Activated carbon unit



Zeo-power upward agitation

### Specifications

| Model | | | PiH-30 | | | PiH-60 | | |
|---|---|---|---|---|---|---|---|---|
| Power supply | | | Frequency 50Hz or 60Hz at 3-phase 200V | | | | | |
| Output | | kW | 1.5 | | | 3.7 | | |
| | | HP | 2 | | | 5 | | |
| Airflow | | m³/min | 0 | 10 | 13 | 0 | 20 | 26 |
| | | cfm | 0 | 353 | 459 | 0 | 706 | 918 |
| Static pressure [kPa] | | | 2.74 | 1.07 | 0.49 | 2.84 | 1.18 | 0.49 |
| Filter | Area | m² | 9.0 | | | 18.0 | | |
| | | ft² | 96.8 | | | 193.6 | | |
| | Quantity | | 4 | | | 8 | | |
| | Shape/Material | | Molded cartridge / Polyester Spunbond | | | | | |
| | Dust removal | | Automatic pulse jet (At fixed interval) | | | | | |
| Compressed air consumption Pulse: Dust removal Flushing: ZEOPOWER Entrainment | | | Pulse: 20L /min | | | Pulse: 40L /min | | |
| | | | Flash: 150L /min | | | Flash: 300L /min | | |
| Filter aid | | kg | 6.0 (ZEOPOWER) | | | 12.0 (ZEOPOWER) | | |
| | | lb | 13.3 (ZEOPOWER) | | | 26.5 (ZEOPOWER) | | |
| Deodorant [12kg/one unit] | | | Approx. 36kg (Activated carbon) | | | Approx. 72kg (Activated carbon) | | |
| Bucket capacity | | L | 25 | | | 25×2 | | |
| | | U.S.gallon | 6.6 | | | 6.6×2 | | |
| Recommended breakers [A] | | | 15 | | | 30 | | |
| Power cord | | m | 3 (4-core, without plug) | | | | | |
| | | inch | 118 (4-core, without plug) | | | | | |
| Suction port diameter | | mm | Φ125 | | | Φ200 | | |
| | | inch | Φ5 | | | Φ8 | | |
| Dimensions W×D×H | | mm | 650×650×2043 | | | 1100×700×2198 | | |
| | | inch | 25.6×25.6×80.5 | | | 43.4×27.6×86.6 | | |
| Weight | | kg | 195 | | | 360 | | |
| | | lb | 430 | | | 794 | | |
| Paint color | | | JPMA (Japan Paint Manufactuirng Association) J11-833 | | | | | |

# SS-N

**Wet type dust collector (Scrubber)**

Scrubber for combustible dust. Wet type dust collector.

Scrubber | Inflammable dust | Max. airflow 70 m³/min | Premium efficiency motor IE3

Scrubber

Raschig ring

Collection unit

### Specifications

with inverter

| Model | | | SS-30N | SS-40N | SS-60N | SS-75N |
|---|---|---|---|---|---|---|
| Power supply | | | 3-phase 200V 50/60Hz common use | | | |
| Output | | kW | 3.7 | | 5.5 | 7.5 |
| | | HP | 5 | | 7.3 | 10 |
| Airflow | | m³/min | 30 | 40 | 50 | 70 |
| | | cfm | 1059 | 1412 | 1765 | 2472 |
| Static pressure [kPa] | | | 3.0 | | | |
| Filler | Type | | Rashig ring (porcelain) | | | |
| | Size | | Φ10×10×thickness 2mm | | | |
| | Specific surface area | m² | 650 | | | |
| | | ft² | 6994 | | | |
| | Filling capacity | L | 225 | 300 | 360 | 495 |
| | | U.S.gallon | 59.5 | 79.3 | 95.2 | 130.8 |
| Suction /Exhaust port | | mm | Φ200/Φ200 | Φ250/Φ250 | Φ300/Φ300 | Φ350/Φ350 |
| | | inch | Φ8/Φ8 | Φ10/Φ10 | Φ12/Φ12 | Φ14/Φ14 |
| Circulation tank | | L | 330 | 420 | 510 | 670 |
| | | U.S.gallon | 87.1 | 111.0 | 134.7 | 177.0 |
| Demister | | mm | 1pc. (515×780) | 2pcs. (370×780) | 2pcs. (515×780) | 2pcs. (615×780) |
| | | inch | 1pc. (20.3×30.8) | 2pcs. (14.7×30.8) | 2pcs. (20.3×30.8) | 2pcs. (24.3×30.8) |
| Nozzle | | | 4 pcs./10A | 6 pcs. /10A | 8 pcs. /10A | 10 pcs. /10A |
| Circulating pump | Recirculating water quantity [L/min] | | 30 | 50 | 75 | 90 |
| | Output | kW | 0.18 | | 0.25 | |
| | | HP | 0.2 | | 0.3 | |
| Water supply | | | Water line 0.15MPa or higher/ball-tap (with manual ball valve 15A) | | | |
| Maximum inlet dust concentration/ maximum suction temperature | | | 300mg/m³ / 40℃ or less | | | |
| Recommended Breaker | | | Standard equipment | | | |
| Power cord | | | Option (4-core) | | | |
| Dimensions W×D×H | | mm | 1445×1000×2480 | 1745×1000×2480 | 1995×1000×2480 | 2520×1000×2580 |
| | | inch | 56.9×39.4×97.7 | 68.8×39.4×97.7 | 78.6×39.4×97.7 | 99.3×39.4×101.6 |
| Weight [Not including water] | | kg | 610 | 760 | 880 | 1180 |
| | | lb | 1345 | 1676 | 1941 | 2602 |

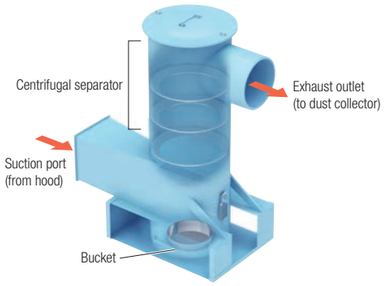
※Performance values might change from those shown on custom order specifications.

# DB

Pre-dust box

Reduce entering fire inside dust collector.
Prevent from a fire accident

Pre-dust box




### Specifications

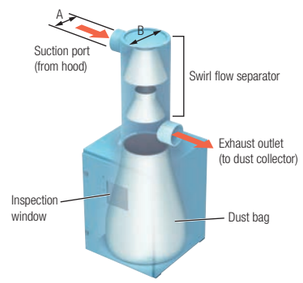
| Model | | DB-10 | DB-20 | DB-30 | DB-40 |
|---|---|---|---|---|---|
| Applicable airflow | m³/min | 10 | 20 | 30 | 40 |
| | cfm | 353.1 | 706.2 | 1059.4 | 1412.5 |
| Pressure loss | | 490Pa at 7.5m³/min | 490Pa at 15m³/min | 539Pa at 22.5m³/min | 588Pa at 30m³/min |
| Minimum working airflow | m³/min | 3.5 | 7.0 | 11.0 | 15.0 |
| | cfm | 123.6 | 247.2 | 388.4 | 529.7 |
| Dimensions W×D×H | mm | 465×309×647 | 550×405×938 | 700×501×1149 | 850×590×1372 |
| | inch | 18.4×12.2×25.5 | 21.7×16.0×37.0 | 27.6×19.8×45.3 | 33.5×23.3×54.1 |
| Corresponding models | | VNA-15,PiF-15 | VNA-30,PiF-30 | VNA-45,PiF-45 | VNA-60,PiF-60 |
| Paint color | | JPMA (Japan Paint Manufactuirng Association) J11-833 | | | |

# SR

Cyclone

Amano's unique in-house cyclone
Lengthens life of dust collector filter

Cyclone




### Specifications

| Model | | SR-65 | SR-100 | SR-125 |
|---|---|---|---|---|
| ΦA | mm | 63.5 | 100 | 127 |
| | inch | 2.5 | 4 | 5 |
| ΦB | mm | 127 | 200 | 254 |
| | inch | 5 | 8 | 10 |
| Dimensions W×D×H | mm | 400×402×879 | 400×402×1044 | 600×602×1485 |
| | inch | 15.8×15.9×34.7 | 15.8×15.9×41.1 | 23.7×23.8×58.5 |
| Applicable airflow | m³/min | 2～4 | 4.5～9 | 7.5～12 |
| | cfm | 70～141 | 158～317 | 264～423 |
| Corresponding models | | VF-5N | IS-15 | VNA,PiF-15 |
| Paint color | | JPMA (Japan Paint Manufactuirng Association) J11-833 | | |

| Model | | SR-150 | SR-200 | SR-250 |
|---|---|---|---|---|
| ΦA | mm | 150 | 200 | 250 |
| | inch | 6 | 8 | 10 |
| ΦB | mm | 300 | 400 | 500 |
| | inch | 12 | 16 | 20 |
| Dimensions W×D×H | mm | 600×602×1595 | 900×905×2063 | 900×905×2302 |
| | inch | 23.7×23.8×62.8 | 35.5×35.7×81.3 | 35.5×35.7×90.7 |
| Applicable airflow | m³/min | 10～20 | 17.5～35 | 30～50 |
| | cfm | 353～706 | 618～1236 | 1059～1765 |
| Corresponding models | | VNA,PiF-30 | VNA,PiF-45 | VNA,PiF-60 |
| Paint color | | JPMA (Japan Paint Manufactuirng Association) J11-833 | | |

| Model | | SR-300 | SR-380 |
|---|---|---|---|
| ΦA | mm | 300 | 380 |
| | inch | 12 | 15 |
| ΦB | mm | 600 | 760 |
| | inch | 24 | 30 |
| Dimensions W×D×H | mm | 1200×1203×3039 | 1200×1203×3419 |
| | inch | 47.3×47.4×119.7 | 47.3×47.4×134.7 |
| Applicable airflow | m³/min | 40～80 | 60～120 |
| | cfm | 1412～2825 | 2118～4237 |
| Corresponding models | | PiF-75/120,VNA-120 | PiF-150 |
| Paint color | | JPMA (Japan Paint Manufactuirng Association) J11-833 | |

※Performance values might change from those shown on custom order specifications.





# V-Σ

Vacuum cleaner

Factory vacuum cleaner unit Proven Bestseller!
Incredible power and durability!

Molded filter | Manual shaking | General dry dust | 6.4 m³/min Max. airflow | IE3 Premium efficiency motor

Molded cartridge filter

### Specifications

| Model | | | V-2Σ | | | V-3Σ | | | V-5Σ | | | V-7Σ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Power supply | | | Frequency 50Hz or 60Hz at 3-phase 200V | | | | | | | | | | | |
| Output | | kW | 1.5 | | | 2.2 | | | 3.7 | | | 5.5 | | |
| | | HP | 2 | | | 3 | | | 5 | | | 7.3 | | |
| Airflow | | m³/min | 0 | 2.0 | 4.2 | 0 | 2.5 | 5.1 | 0 | 3.3 | 6.0 | 0 | 3.3 | 6.4 |
| | | cfm | 0 | 70 | 148 | 0 | 88 | 180 | 0 | 116 | 211 | 0 | 116 | 226 |
| Static pressure [kPa] | | | 9.81 | 9.32 | 5.39 | 14.7 | 13.2 | 8.04 | 22.1 | 19.1 | 9.81 | 26.0 | 22.6 | 9.81 |
| Filter | Molded | Area | m² | 2.0 | | | | | 2.6 | | | | | |
| | | | ft² | 21.5 | | | | | 27.9 | | | | | |
| | | Quantity | 1 | | | | | | | | | | | |
| | | Dust removal | Automatic shaking / Manual shaking | | | | | | | | | | | |
| | Woven | Area | m² | 0.7 | | | | | 1.2 | | | | | |
| | | | ft² | 7.5 | | | | | 12.9 | | | | | |
| | | Quantity | 1 | | | | | | | | | | | |
| | | Dust removal | Manual shaking | | | | | | | | | | | |
| Bucket capacity | | L | 27 | | | | | | 60 | | | | | |
| | | U.S.gallon | 7.1 | | | | | | 15.8 | | | | | |
| Recommended breakers [A] | | | 15 | | | 20 | | | 30 | | | 50 | | |
| Power cord | | m | 10 (4-core, with plug) | | | | | | | | | | | |
| | | inch | 393 (4-core, with plug) | | | | | | | | | | | |
| Suction port diameter | | mm | Φ38.1 | | | | | | | | | | | |
| | | inch | Φ1.5 | | | | | | | | | | | |
| Dimensions W×D×H | | mm | 380×908×925 | | | | | | 480×1252×1020 | | | | | |
| | | inch | 15.0×35.8×36.5 | | | | | | 18.9×49.3×40.2 | | | | | |
| Weight | | kg | 100 | | | 110 | | | 195 | | | 220 | | |
| | | lb | 221 | | | 243 | | | 430 | | | 486 | | |
| Paint color | | | JPMA (Japan Paint Manufactuirng Association) J11-833 | | | | | | | | | | | |

**Suctions up metal fragments & cutting chips**

Collect metal and cutting scraps with stable suction force.
Also functions as vacuum source for factories producing precision components

# IPR/IXR

Pulse jet vacuum cleaner

Internal pulse jet & compressor.
Top of the line among industrial vacuums.

IPR: Molded filter | Pulse jet | General dry dust | 6 m³/min Max. airflow

IXR: Resin filter | Pulse jet | Fine powder | 6 m³/min Max. airflow

Standard filter
(Polyester)

Resin filter
(Polyethylene)

### Specifications

※Suction brushes, rods, hoses are sold separately. with inverter

| Model | | | IPR-3 | IXR-3 | IPR-4 | IXR-4 | IPR-5 | IXR-5 |
|---|---|---|---|---|---|---|---|---|
| Power supply | | | 3-phase 200V 50/60Hz common use | | | | | |
| Control method | | | Inverter drive (6 step speed change operation) | | | | | |
| Output | | kW | 1.5 | | 3.7 | | 5.5 | |
| | | HP | 2 | | 5 | | 7.3 | |
| Max. airflow | | m³/min | 3.0 | | 5.0 | | 6.0 | |
| | | cfm | 105 | | 176 | | 211 | |
| Max. static pressure [kPa] | | | 13.0 | | 23.5 | | 27.0 | |
| Filter | Area | m² | 3.5 | 3.2 | 4.7 | 4.8 | 4.7 | 4.8 |
| | | ft² | 37.6 | 34.4 | 50.5 | 51.6 | 50.5 | 51.6 |
| | Quantity | | 1 | | | | | |
| | Material | | Polyester | Polyethylene | Polyester | Polyethylene | Polyester | Polyethylene |
| | Dust removal | | Automatic pulse jet (At fixed interval) | | | | | |
| Diaphragm valve [pcs.] | | | 3 | | | | | |
| Bucket capacity | | L | 30 | | | | | |
| | | U.S.gallon | 7.9 | | | | | |
| Recommended breakers | | | Standard equipment | | | | | |
| Power cord | | m | 3.5 (4-core, without plug) | | | | | |
| | | inch | 137 (4-core, without plug) | | | | | |
| Suction port diameter | | mm | Φ50.8 | | Φ63.5 | | | |
| | | inch | Φ2 | | Φ2.5 | | | |
| Dimensions W×D×H | | mm | 1254×622×1258 | | 1254×622×1458 | | | |
| | | inch | 49.4×24.5×49.6 | | 49.4×24.5×57.5 | | | |
| Weight | | kg | 195 | 200 | 240 | 250 | 265 | 275 |
| | | lb | 430 | 441 | 530 | 552 | 585 | 607 |
| Internal compressor operating control | | | 3-phase 200V 0.2kW 50/60Hz common use | | | | | |
| Paint color | | | JPMA (Japan Paint Manufactuirng Association) F35-85A (roof & bucket unit: YN40) | | | | | |

# ACR-PK

Central cleaning

Compact central cleaning suction source.

Molded filter | Pulse jet | General dry dust | 5.6 m Filter area

**ACR-10PK**

Molded cartridge filter

Paint color JPMA (Japan Paint Manufactuirng Association) 634

See page 32 of specification table

# V-SDR

**Dust explosion pressure diffusion type industrial vacuum cleaner**

For use with explosive or inflammable powder such as aluminum dust.
Fullfilling safety measures.

Molded filter | Manual shaking | Inflammable powder/ dust that might explode | Max. airflow 5.7 m³/min

For metals

Effect on Kst value 200·160 (3SDR) (7SDR)

Molded cartridge filter
(Anti-electrostatic filter)

## Specifications

| Model | | | V-3SDR | | | V-7SDR | | |
|---|---|---|---|---|---|---|---|---|
| Power supply | | | Frequency 50Hz or 60Hz at 3-phase 200V | | | | | |
| Output | | kW | 2.2 | | | 5.5 | | |
| | | HP | 3 | | | 7.3 | | |
| Airflow | | m³/min | 0 | 2.4 | 4.8 | 0 | 2.7 | 5.7 |
| | | cfm | 0 | 84 | 169 | 0 | 95 | 201 |
| Static pressure [kPa] | | | 12.4 | 10.9 | 7.9 | 22.6 | 19.7 | 9.7 |
| Filter | Area | m² | 2.0 | | | 2.6 | | |
| | | ft² | 21.5 | | | 27.9 | | |
| | Quantity | | 1 | | | | | |
| | Shape | | Molded cartridge (Anti-electrostatic filter) | | | | | |
| | Dust removal | | Manual shaking | | | | | |
| Bucket capacity | | L | 27 | | | 60 | | |
| | | U.S.gallon | 7.1 | | | 15.8 | | |
| Recommended breakers [A] | | | 20 | | | 50 | | |
| Power cord | | m | 15 (4-core, without plug) | | | | | |
| | | inch | 590 (4-core, without plug) | | | | | |
| Suction port diameter | | mm | φ38.1 | | | | | |
| | | inch | φ1.5 | | | | | |
| Dimensions W×D×H | | mm | 496×1089×1052 | | | 621×1397×1194 | | |
| | | inch | 19.6×42.9×41.5 | | | 24.5×55.0×47.1 | | |
| Weight | | kg | 141 | | | 250 | | |
| | | lb | 311 | | | 552 | | |
| Paint color | | | JPMA (Japan Paint Manufactuirng Association) S11-344 | | | | | |

1. For countries with high efficiency motor regulation, the high efficiency Totally Enclosed Fan-cooled (non-explosion-proof) motor that meets the regulations of each country is installed. The model name will be DN or D.
2. In the case of power supply specification is not 200V50Hz/60Hz or 220V60Hz, the Totally Enclosed Fan-cooled (non-explosion-proof) motor is installed. The model name will be DN or D.

# VF-2LD

**Dust explosion pressure diffusion type industrial vacuum cleaner**

For explosive & inflammable dust other than metal such as toner.
Fullfilling safety measures.

Molded filter | Manual shaking | Inflammable powder/ dust that might explode | Max. airflow 2.7 m³/min

For toner

Effect on Kst value 300

**Explosion test** Our inhouse explosion test photos.

Molded cartridge filter
(dedicated toner Fine-fil static charge)

## Specifications

※Suction brushes, rods, hoses are sold separately.

| Model | | | VF-2LD | |
|---|---|---|---|---|
| Power supply | | | 3-phase 200V | single-phase 100V |
| | | | Frequency 50Hz or 60Hz | |
| Output | | kW | 1.0 | |
| | | HP | 1.3 | |
| Airflow | | m³/min | 2.7±0.3 | 2.5±0.3 |
| | | cfm | 95±10 | 88±10 |
| Static pressure [kPa] | | | 20.0±3.0 | 17.0±2.3 |
| Filter | Area | m² | 2.2 | |
| | | ft² | 23.6 | |
| | Quantity | | 1 | |
| | Shape | | Molded cartridge (dedicated toner fine-fil static charge) | |
| | Dust removal | | Manual shaking | |
| Bucket capacity | | L | 13 | |
| | | U.S.gallon | 3.4 | |
| Recommended breakers [A] | | | 10 | 15 |
| Power cord | | m | 10.3 (4-core, without plug) | 10.3 (3-core, with plug) |
| | | inch | 405 (4-core, without plug) | 405 (3-core, with plug) |
| Suction port diameter | | mm | φ38 | |
| | | inch | φ1.5 | |
| Dimensions W×D×H | | mm | 430×895×1500 | |
| | | inch | 17.0×35.3×59.1 | |
| Weight | | kg | 107 | 110 |
| | | lb | 236 | 243 |
| Paint color | | | JPMA (Japan Paint Manufactuirng Association) S11-344 | |

※Performance values might change from those shown on custom order specifications.





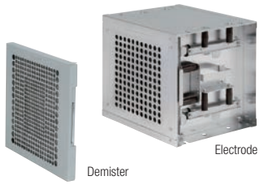
# EM-8eⅡ

**Electrostatic precipitator mist collector**

Powerful collection of highly concentrated mist up to 100mg/m³
Compact electric collection type mist collectors.
Operational for both oil and water soluble mist

Electrical | Mist | Max. airflow 7.5 m³/min

Compact



## Specifications

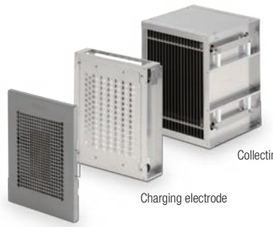
| Model | | | EM-8eⅡ |
|---|---|---|---|
| Power supply | | | Single phase 200V 50/60Hz common use |
| Output | | kW | 0.12 |
| | | HP | 0.16 |
| Usage Point Airflow ※Figure in ( ) is maximum value | m³/min | 50Hz | 7.5 (7.5) |
| | | 60Hz | 7.5 (7.5) |
| | cfm | 50Hz | 264 (264) |
| | | 60Hz | 264 (264) |
| Usage point static pressure [Pa] ※Figure in ( ) is maximum value | | 50Hz | 50 (900) |
| | | 60Hz | 50 (900) |
| Prefilter | | | Stainless steel wire demister |
| Electric collection part | Electric charge method | | (–) negative charge, 2-stage charging system |
| | Charging electrode type | | Needle type (nickel alloy) |
| | Electrode charging voltage HV [kV] | | –8 |
| | Collecting electrode voltage LV [kV] | | –6 |
| Objects for collection | | | Oil mist, Water-soluble oil mist and Oil soluble & water soluble mist with ignition point of 80℃or more<br>Water-soluble mist with electric conductivity of 300mS/m or less |
| Collecting efficiency [%] | | | 99 (Weight ratio per filter paper) Depending on suction air volume |
| Maximum inlet concentration [mg/m³] | | | 100 |
| Recommended breakers [A] | | | 5 |
| Power cord | | m | 3.5 (3-core, without plug) |
| | | inch | 137 (3-core, without plug) |
| Drainage port | | | 1-inch nipple (taper male screw for R1 pipe) |
| Dimensions W×D×H | | mm | 430×535×400 |
| | | inch | 16.9×21.0×15.7 |
| Weight | | kg | 29 |
| | | lb | 64 |
| Paint color | | | JPMA(Japan Paint Manufactuirng Association) F35-85A |

# EM-eⅡ

**Electrostatic precipitator mist collector**

Powerful collection of highly concentrated mist up to 200mg/m³
Bestseller among electric collection Mist Collectors
Operational for both oil and water soluble mist

Electrical | Mist | Max. airflow 30 m³/min | Premium efficiency motor IE3



## Specifications

| Model | | | EM-15eⅡ | EM-30eⅡ |
|---|---|---|---|---|
| Power supply | | | 3-phase 200V 50/60Hz common use | |
| Output | | kW | 0.75 | 1.5 |
| | | HP | 1 | 2 |
| Usage Point Airflow ※Figure in ( ) is maximum value | m³/min | 50Hz | 15 (19) | 30 (34) |
| | | 60Hz | 15 (22) | 30 (40) |
| | cfm | 50Hz | 529 (670) | 1059 (1200) |
| | | 60Hz | 529 (776) | 1059 (1412) |
| Usage point static pressure [Pa] ※Figure in ( ) is maximum value | | 50Hz | 350 (550) | 280 (450) |
| | | 60Hz | 600 (750) | 500 (600) |
| Prefilter | | | Stainless steel wire demister | |
| Electric collection part | Electric charge method | | (–) negative charge, 2-stage charging system | |
| | Charging electrode type | | Needle type (titanium) | |
| | Electrode charging voltage HV [kV] | | –10 | |
| | Collecting electrode voltage LV [kV] | | –6 | |
| Objects for collection | | | Oil mist, Water-soluble oil mist and Oil soluble & water soluble mist with ignition point of 80℃or more<br>Water-soluble mist with electric conductivity of 300mS/m or less | |
| Collecting efficiency [%] | | | 99 (Weight ratio per filter paper) Depending on suction air volume | |
| Maximum inlet concentration [mg/m³] | | | 200 | |
| Recommended breakers [A] | | | 10 | 15 |
| Power cord | | m | 3.5 (4-core, without plug) | |
| | | inch | 137 (4-core, without plug) | |
| Drainage port | | | 1-inch nipple (taper male screw for R1 pipe) | |
| Dimensions W×D×H | | mm | 478×993×620 | 813×1093×620 |
| | | inch | 18.9×39.1×24.5 | 32.1×43.1×24.5 |
| Weight | | kg | 72 | 120 |
| | | lb | 159 | 265 |
| Paint color | | | JPMA(Japan Paint Manufactuirng Association) F35-85A | |

# EM-SC

**Electrostatic precipitator mist collector**

Clean electrodes without washing by water or detergent.
Equipped with auto self-cleaning function.
Top of the line in electric collection -mist collectors.

Cleaning | Electrical | Mist | 30 m³/min Max. airflow | IE3 Premium efficiency motor ※Except EM-8SC

Self-cleaning

### Specifications

| Model | | EM-8SC | EM-15SC | EM-30SC |
|---|---|---|---|---|
| Power supply | | 3-phase 200V 50/60Hz common use | | |
| Output | kW | 0.4 | 0.75 | 1.5 |
| | HP | 0.5 | 1 | 2 |
| Max. airflow | m³/min | 8.0 | 15.0 | 30.0 |
| | cfm | 282 | 529 | 1059 |
| Max. static pressure [Pa] | | 500 | | |
| Pre-processing | | Metal eliminator | | |
| Electric collection part | Electric charge method | (+) positive charge, 2-stage charging system | | |
| | Charging electrode type | Needle type (titanium) | | |
| | Electrode charging voltage HV [kV] | 10 | | |
| | Collecting electrode voltage LV [kV] | 8 | | |
| | Cleaning method | Cleaning by rotating electrode & stationary scraper | | |
| Objects for collection | | Oil mist, Water-soluble oil mist and Oil soluble & water soluble mist with ignition point of 80°Cor more Water-soluble mist with electric conductivity of 300mS/m or less | | |
| Collecting efficiency [%] | | 99 (weight ratio per filter paper) | | |
| Maximum inlet concentration [mg/m³] | | 200 | | |
| Recommended breakers [A] | | 5 | 10 | 15 |
| Power cord | m | 3.5 (4-core, without plug) | | |
| | inch | 137 (4-core, without plug) | | |
| Drainage port | | 1-inch nipple (taper male screw for R1 pipe) | | |
| Dimensions W×D×H | mm | 707×476×1081 | 872×476×1086 | 1310×476×1209 |
| | inch | 27.9×18.8×42.6 | 34.3×18.8×42.8 | 51.6×18.8×47.6 |
| Weight | kg | 84 | 107 | 140 |
| | lb | 186 | 236 | 309 |
| Paint color | | JPMA(Japan Paint Manufactuirng Association) F35-85A | | |

※Suction inlet packing comes supplied with optional suction inlet.

# EM-SCⅡLt

**Electrostatic precipitator mist collector**

Low-priced model for EM-SC
Equipped with auto self-cleaning function only for collecting electrode

Cleaning | Electrical | Mist | 30 m³/min Max. airflow | IE3 Premium efficiency motor

Self-Cleaning

### Specifications

| Model | | EM-15SCⅡLt | EM-30SCⅡLt |
|---|---|---|---|
| Power supply | | 3-phase 200V 50/60Hz common use | |
| Fan motor output | kW | 0.75 | 1.5 |
| | HP | 1 | 2 |
| Electrode cleaning motor output | W | 7.0 | |
| | HP | 0.009 | |
| Usage point airflow [m³/min] ※Figure in ( ) is min / max value | 50Hz | 15 (Min 12.5 / Max 19) | 30 (Min 25 / Max 34) |
| | 60Hz | 15 (Min 12.5 / Max 22) | 30 (Min 25 / Max 34) |
| Usage point static pressure [Pa] ※Figure in ( ) is max value | 50Hz | 270 (550) | 190 (450) |
| | 60Hz | 540 (750) | 420 (600) |
| Pre-processing | | Metal eliminator | |
| Electric collection part | Electric charge method | (–) negative charge, 2-stage charging system | |
| | Charging electrode type | Needle type | |
| | Electrode charging voltage HV [kV] | 10 (7line) | 10 (14line) |
| | Collecting electrode voltage LV [kV] | 8 (13line) | 8 (26line) |
| Cleaning method | | Cleaning by rotating electrode & stationary scraper | |
| Objects for collection | | Oil mist, Water-soluble oil mist and Oil soluble & water soluble mist with ignition point of 80°C or more Water-soluble mist with electric conductivity of 300mS/m or less | |
| Collecting efficiency [%] | | 99 (weight ratio per filter paper) | |
| Maximum inlet concentration [mg/m³] | | 200 | |
| Recommended breakers [A] | | 10 | 15 |
| Power cord | m | 3.5 (4-core, without plug) | |
| | inch | 137 (4-core, without plug) | |
| Drainage port | | 1-inch 90° ellbow / Hose nipple | |
| Dimensions W×D×H | mm | 500×1234×620 | 835×1334×620 |
| | inch | 19.7×48.6×24.5 | 32.9×52.6×24.5 |
| Weight | kg | 83 | 128 |
| | lb | 183 | 283 |
| Paint color | | JPMA(Japan Paint Manufactuirng Association) F35-85A | |



※Performance values might change from those shown on custom order specifications.

# EM-eH

**Electrostatic precipitator mist collector**

Turbofan gives extra power for air flow & static pressure.
Ideal for die casting machines.

Electrical | Mist | 90 m³/min Max. airflow | IE3 Premium efficiency motor

Max. air flow 90m³/min

### Specifications

with inverter

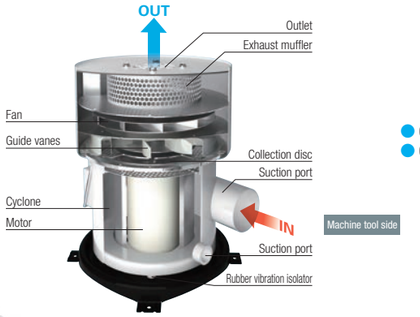
| Model | | EM-60eH | | | EM-90eH | | |
|---|---|---|---|---|---|---|---|
| Power supply | | 3-phase 200V 50/60Hz common use | | | | | |
| Output | kW | 3.7 | | | 5.5 | | |
| | HP | 5.0 | | | 7.3 | | |
| Airflow | m³/min | 0 | 40 | 60 (Operating point) | 0 | 60 | 90 (Operating point) |
| | cfm | 0 | 1412 | 2118 (Operating point) | 0 | 2118 | 3178 (Operating point) |
| Static pressure [kPa] | | 2.23 | 1.50 | 0.50 | 2.76 | 1.70 | 0.27 |
| Pre-processing | Eliminator | 4 pcs. | | | 6 pcs. | | |
| | Demister | 2 pcs. | | | 4 pcs. | | |
| Electric collection part | Charging electrode | 4 pcs. | | | 6 pcs. | | |
| | Collecting electrode | 4 pcs. | | | 6 pcs. | | |
| Safety measure | Fire protection damper | One unit of the FVD type damper (with volume adjuster, temperature fuse, limit switch) is provided as a standard accessory. | | | | | |
| Collecting efficiency [%] | | 97.5 (weight ratio per filter paper) airflow at operating point | | | | | |
| Maximum inlet concentration [mg/m³] | | 50 | | | | | |
| Recommended breakers | | Standard equipment | | | | | |
| Power cord | | Option (4-core) | | | | | |
| Drainage port | | 1-inch single-ended male nipple (with valve and elbow) | | | | | |
| Dimensions W×D×H | mm | 905×958×2221 | | | 905×1303×2266 | | |
| | inch | 35.7×37.8×87.5 | | | 35.7×51.3×89.2 | | |
| Weight | kg | 375 | | | 550 | | |
| | lb | 827 | | | 1213 | | |
| Paint color | | JPMA (Japan Paint Manufactuirng Association) J11-833 | | | | | |

# MJ

**Filter less mist collector**

No filter replacement needed.
Cyclone and trapping disk provide long term suction intake and trapping performance.

Filter Less




Filter Less | Mist | 22 m³/min Max. airflow | IE3 Premium efficiency motor ※Except MJ-5

- **One drain port Large diameter**
- **Cyclone separates out dust and cutting chips**

### Specifications

| Model | | | MJ-5 | MJ-10 | MJ-15 | MJ-25 |
|---|---|---|---|---|---|---|
| Power supply | | | 3-phase 200V 50/60Hz common use | | | |
| Output | | kW | 0.4 | 0.75 | 1.5 | 2.2 |
| | | HP | 0.5 | 1 | 2 | 3 |
| Max. airflow 50Hz/60Hz | | $m^3$/min | 3.7/4.5 | 7.0/8.5 | 13.0/16.0 | 18.0/22.0 |
| | | cfm | 130/158 | 247/300 | 459/565 | 635/776 |
| Max. static pressure [kPa] 50Hz/60Hz | | | 1.0/1.5 | | | |
| Collecting method | | | Cyclone + rotary collision method | | | |
| Collecting efficiency [%] | | | 99.9 (2.0μm particle water soluble mist) | | | |
| Objects for collection | | | Water soluble mist /Oil mist (after-filter is mounted in case of oil mist suction) | | | |
| Maximum inlet concentration [mg/$m^3$] | | | 20 | | | |
| Recommended breakers [A] | | | 5 | 10 | 15 | 20 |
| Power cord | | | Option (4-core) | | | |
| Suction port diameter | | mm | Φ98 | Φ123 | Φ148 | Φ198 |
| | | inch | Φ3.9 | Φ4.9 | Φ5.9 | Φ7.8 |
| Drainage port | | | 1-inch socket | | | |
| Dimensions | mm | Max width | 429 | 476 | 576 | 632 |
| | | Height | 453 | 507 | 589 | 662 |
| | inch | Max width | 16.9 | 18.8 | 22.7 | 24.9 |
| | | Height | 17.9 | 20.0 | 23.2 | 26.1 |
| Weight | | kg | 38 | 42 | 63 | 73 |
| | | lb | 84 | 93 | 139 | 161 |
| Vibration-suppression function | | | Rubber vibration isolator (oil-resistant) | | | |
| Paint color | | | JPMA (Japan Paint Manufactuirng Association) main unit F35-85A, bottom YN40 | | | |

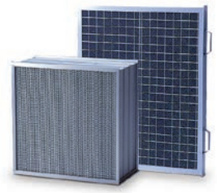
# MS

**Large air flow filter type mist collector**

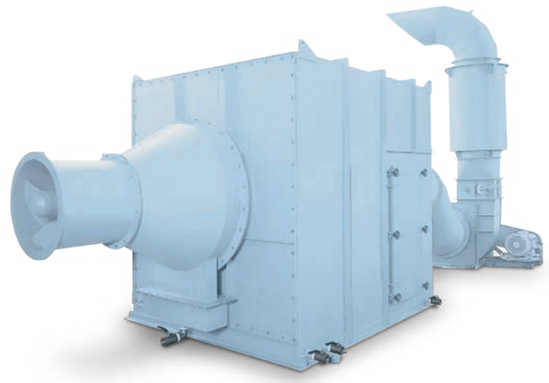
Proprietary swirl flow separator.
Ideal for collection from multiple machine tools.

Max. airflow 400$m^3$/min

Filter | Mist | 400 m³/min Max. airflow



Filter



### Specifications

※ Fan motor is sold separately

| Model | | | MS-100 | MS-150 | MS-200 | MS-250 | MS-350 | MS-400 |
|---|---|---|---|---|---|---|---|---|
| Applicable capacity | | $m^3$/min | 100 | 150 | 200 | 250 | 350 | 400 |
| | | cfm | 3531 | 5297 | 7062 | 8828 | 12360 | 14125 |
| Primary filter | Dimensions W×H | mm | 500×666 | | 800×1000 | | | |
| | | inch | 19.7×26.3 | | 31.5×39.4 | | | |
| | Quantity | | 16 | 20 | 24 | 32 | 40 | 40 |
| | Material | | Sponge + particular fiber | | | | | |
| Secondary filter | Dimensions W×H×D | mm | 610×610×290 | 610×760×290 | | 610×610×290 | 610×760×290 | |
| | | inch | 24.1×24.1×11.5 | 24.1×30.0×11.5 | | | | |
| | Quantity | | 4 | | 6 | 9 | | 12 |
| | Material | | Glass wool | | | | | |
| Objects for collection | | | Water soluble mist/oil mist | | | | | |
| Maximum inlet concentration [mg/$m^3$] | | | 20 | | | | | |
| Suction port diameter | | mm | Φ380 | Φ470 | Φ550 | Φ610 | Φ720 | Φ770 |
| | | inch | 15 | 18.6 | 21.7 | 24.1 | 28.4 | 30.4 |
| Dimensions | mm | W | 3250 | 3635 | 4590 | 4730 | 5300 | 5390 |
| | | D | 1500 | 1870 | 1700 | 2050 | 2560 | 2600 |
| | | H | 1590 | 1590 | 2250 | 2250 | 2250 | 2700 |
| | inch | W | 128.0 | 143.2 | 180.8 | 186.3 | 208.7 | 212.3 |
| | | D | 59.1 | 73.7 | 67.0 | 80.8 | 100.8 | 102.4 |
| | | H | 62.6 | 62.6 | 88.6 | 88.6 | 88.6 | 106.3 |
| Weight | | kg | 1200 | 1600 | 2200 | 2400 | 2900 | 3500 |
| | | lb | 2646 | 3528 | 4851 | 5292 | 6395 | 7718 |
| Drainage port | 1-1/2 inch socket [set] | | 4 | | | | | |
| | 2 inch socket [set] | | 1 | | | | | |
| Paint color | | | JPMA (Japan Paint Manufactuirng Association) J11-833 | | | | | |

# MZ

**Filter type mist collector**

Energy Saving model
Operation at same air flow but with a motor that is lower notch.

Energy Saving

Filter | Mist | 20 m³/min Max. airflow | IE3 Premium efficiency motor ※Except MZ-10

Primary filter

Secondary filter

## Easy toolless maintenance!

Maintenance is easy even in high positions such as upper parts of machine tools.

Unclamp at 2 positions and open the cover.

Remove the rectifier cone unit.

Remove the primary filter from the rectifier cone unit.

Take out the secondary filter from the fan unit and replace with a new secondary filter.

### Specifications

| Model | | | MZ-10 | MZ-15 | MZ-30 |
|---|---|---|---|---|---|
| Power supply | | | 3-phase 200V 50/60Hz common use | | |
| Output | | kW | 0.4 | 0.75 | 1.5 |
| | | HP | 0.5 | 1 | 2 |
| Max. airflow | $m^3$/min | 50Hz | 8.3 | 10.5 | 17 |
| | | 60Hz | 10 | 12.5 | 20 |
| | cfm | 50Hz | 293 | 370 | 600 |
| | | 60Hz | 353 | 442 | 709 |
| Max. static pressure [kPa] | | 50Hz | 0.9 | 0.9 | 1.2 |
| | | 60Hz | 1.3 | 1.3 | 1.75 |
| Primary filter | | | Polyester (1 pc. use) | | |
| Secondary filter | | | Polyester (1 pc. use) | | |
| Collecting efficiency [%] | | | 99.7 and over (2μm and over water soluble mist) | | |
| Objects for collection | | | Water soluble mist (intake of oily mist after mounting an after-filter available as an option) | | |
| Maximum inlet concentration [mg/$m^3$] | | | 20 | | |
| Recommended breakers [A] | | | 5 | 10 | 15 |
| Power cord | | | Option (4-core) | | |
| Suction port diameter | | mm | Φ123 | Φ148 | Φ198 |
| | | inch | Φ4.9 | Φ5.9 | Φ7.8 |
| Drainage port | | | Φ16mm (2 locations) non-thread screws (use for insertion of hose) | | |
| Dimensions W×D×H | | mm | 306×556×450 | 356×583×460 | 407×672×575 |
| | | inch | 12.1×21.9×17.8 | 14.1×23.0×18.2 | 16.1×26.5×22.7 |
| Weight | | kg | 27 | 35 | 60 |
| | | lb | 60 | 78 | 133 |
| Paint color | | | JPMA (Japan Paint Manufactuirng Association) main unit F35-85A, exhaust box U77-60L | | |

# MC-45

**Filter type medium airflow mist collector**

Medium airflow mist collector.

Max. airflow 42$m^3$/min

Filter | Mist | 42 m³/min Max. airflow | IE3 Premium efficiency motor

Filter

### Specifications

| Model | | MC-45 | | |
|---|---|---|---|---|
| Power supply | | Frequency 50Hz or 60Hz at 3-phase 200V | | |
| Output | kW | 2.2 | | |
| | HP | 3 | | |
| Airflow | $m^3$/min | 0 | 20 | 42 |
| | cfm | 0 | 706 | 1483 |
| Static pressure [kPa] | | 2.75 | 2.26 | 0.49 |
| Primary filter | Quantity | 1 | | |
| | Material | Metal mesh | | |
| Secondary filter | Quantity | 1 | | |
| | Material | Urethane sponge | | |
| Objects for collection | | Water soluble mist | | |
| Maximum inlet concentration [mg/$m^3$] | | 20 | | |
| Recommended breakers [A] | | 20 | | |
| Power cord | m | 3 (4-core, without plug) | | |
| | inch | 118 (4-core, without plug) | | |
| Suction port diameter | mm | Φ200 | | |
| | inch | Φ8 | | |
| Drain port | | Equipped with drain valve and drain tank | | |
| Dimensions W×D×H | mm | 850×650×1759 | | |
| | inch | 33.5×25.6×69.3 | | |
| Weight | kg | 185 | | |
| | lb | 408 | | |
| Paint color | | JPMA (Japan Paint Manufactuirng Association) J11-833 | | |



※Performance values might change from those shown on custom order specifications.

# VNA-SDN

## Dust explosion pressure diffusion type dust collector

Fullfilling safety measures.
Dust collector for explosive and flammable dust, aluminum and so on.

Effect on Kst values of 700
※Except 60DN

Woven plate filter
(Anti-electrostatic filter)

### Explosion pressure diffusion port

Pressure from explosion is discharged into air to prevent damage to the equipment.

### Extinguisher port

In the unlikely event fire occurs in the equipment, extinguishing agent is dispensed.

### Check valve

Prevents reverse flow of blow force or fire to protect the worker.

Anti-electrostatic woven filter | Manual shaking | Inflammable powder/ dust that might explode | Max. airflow 55 m/min | Premium efficiency motor ※Except VNA-30SDN/45SDN

| Model | Kst value (x10³kPa·m/s or less) | Pmax(×10⁵kPa or less) |
|---|---|---|
| VNA-30SDN | 700 | 11.5 |
| VNA-45SDN | 700 | 11.5 |
| VNA-60DN | 300 | 11.0 |

Effective area was calculated based on "Explosive pressure discharge device technical guidelines(Revised version)NIIS-TR-No.38(2005)" in incorporated agency industrial safety institute laws.
Above figures are for standard equipment.
Please have the target dust evaluated for explosion potential (billed to customer).

### Specifications

| Model | | | VNA-30SDN | | | VNA-45SDN | | | VNA-60DN | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Power supply | | | Frequency 50Hz or 60Hz at 3-phase 200V | | | | | | | | |
| Output | | kW | 1.5 | | | 2.2 | | | 3.7 | | |
| | | HP | 2 | | | 3 | | | 5 | | |
| Airflow | | m³/min | 0 | 15 | 25 | 0 | 20 | 40 | 0 | 30 | 55 |
| | | cfm | 0 | 529 | 882 | 0 | 706 | 1412 | 0 | 1059 | 1942 |
| Static pressure [kPa] | | | 2.55 | 1.70 | 0.52 | 2.63 | 1.98 | 0.48 | 2.64 | 2.13 | 0.65 |
| Filter | Area | m² | 9.0 | | | 13.5 | | | 18.0 | | |
| | | ft² | 96.8 | | | 145.2 | | | 193.6 | | |
| | Quantity | | 2 | | | 3 | | | 4 | | |
| | Shape | | Woven plate (Anti-electrostatic filter) | | | | | | | | |
| | Dust removal | | Manual shaking | | | | | | | | |
| Bucket capacity | | L | 22 | | | 35 | | | 25×2 | | |
| | | U.S.gallon | 5.8 | | | 9.2 | | | 6.6×2 | | |
| Recommended breakers [A] | | | 15 | | | 20 | | | 30 | | |
| Power cord | | m | 5 (4-core, without plug) | | | | | | | | |
| | | inch | 196 (4-core, without plug) | | | | | | | | |
| Suction port diameter | | mm | Φ150 | | | Φ200 | | | | | |
| | | inch | Φ6 | | | Φ8 | | | | | |
| Dimensions W×D×H | | mm | 1020×1253×1754 | | | 1355×1328×1821 | | | 1546×1396×2055 | | |
| | | inch | 40.2×49.4×69.1 | | | 53.4×52.3×71.7 | | | 60.9×55.0×81 | | |
| Weight | | kg | 340 | | | 400 | | | 460 | | |
| | | lb | 750 | | | 882 | | | 1015 | | |
| Paint color | | | JPMA (Japan Paint Manufactuirng Association) S11-344 | | | | | | | | |

1. The dimensions mentioned above are only for the main unit. A check valve, an electrical box, the roof of outdoor specifications are not included.
2. A dust explosion-proof motor (motor having structure to prevent the invasion of the outside substance) is installed on VNA-30SDN and VNA-45SDN.
3. For countries with high efficiency motor regulation, the high efficiency Totally Enclosed Fan-cooled (non-explosion-proof) motor that meets the regulations of each country is installed. The model name will be DN or D.
4. In the case of power supply specification is not 200V50Hz/60Hz or 220V60Hz, the Totally Enclosed Fan-cooled (non-explosion-proof) motor is installed. The model name will be DN or D.

# VN-SD

## Dust explosion pressure diffusion type dust collector

Fullfilling safety measures.
Dust collector for explosive and flammable dust, aluminum and so on.

Effect on Kst values of 400

Woven plate filter
(canvas plus aluminum sheet)

### Explosion pressure diffusion port

Pressure from explosion is discharged into air to prevent damage to the equipment.

### Extinguisher port

In the unlikely event fire occurs in the equipment, extinguishing agent is dispensed.

### Check valve

Prevents reverse flow of blow force or fire to protect the worker.

Woven filter | Manual shaking | Inflammable powder/ dust that might explode | Max. airflow 35 m/min

| Model | Kst value (x10³kPa·m/s or less) | Pmax(×10⁵kPa or less) |
|---|---|---|
| VN-30SD | 400 | 11.5 |
| VN-45SD | 400 | 11.5 |

Effective area was calculated based on "Explosive pressure discharge device technical guidelines(Revised version)NIIS-TR-No.38(2005) in incorporated agency industrial safety institute laws.
Above figures are for standard equipment.
Please have the target dust evaluated for explosion potential (billed to customer).

### Specifications

| Model | | | VN-30SD | | | VN-45SD | | |
|---|---|---|---|---|---|---|---|---|
| Power supply | | | Frequency 50Hz or 60Hz at 3-phase 200V | | | | | |
| Output | | kW | 1.5 | | | 2.2 | | |
| | | HP | 2 | | | 3 | | |
| Airflow | | m³/min | 0 | 15 | 24.5 | 0 | 20 | 35 |
| | | cfm | 0 | 529 | 865 | 0 | 706 | 1236 |
| Static pressure [kPa] | | | 2.84 | 1.62 | 0.39 | 2.75 | 1.72 | 0.49 |
| Filter | Area | m² | 7.5 | | | 10.0 | | |
| | | ft² | 80.7 | | | 107.6 | | |
| | Quantity | | 3 | | | 4 | | |
| | Shape | | Woven plate (canvas filter plus aluminum sheet with earthing conductor) | | | | | |
| | Dust removal | | Manual shaking | | | | | |
| Bucket capacity | | L | 27 | | | 38 | | |
| | | U.S.gallon | 7.1 | | | 10.0 | | |
| Recommended breakers [A] | | | 15 | | | 20 | | |
| Power cord | | m | 5 (4-core, without plug) | | | | | |
| | | inch | 196 (4-core, without plug) | | | | | |
| Suction port diameter | | mm | Φ150 | | | Φ200 | | |
| | | inch | Φ6 | | | Φ8 | | |
| Dimensions W×D×H | | mm | 650×850×1656 | | | 850×900×1812 | | |
| | | inch | 25.6×33.5×65.2 | | | 33.5×35.5×71.4 | | |
| Weight | | kg | 220 | | | 280 | | |
| | | lb | 486 | | | 618 | | |
| Paint color | | | JPMA (Japan Paint Manufactuirng Association) S11-344 | | | | | |

1. The dimensions mentioned above are only for the main unit. A check valve, an electrical box, the roof of outdoor specifications are not included.
2. A dust explosion-proof motor (motor having structure to prevent the invasion of the outside substance) is installed.
3. For countries with high efficiency motor regulation, the high efficiency Totally Enclosed Fan-cooled (non-explosion-proof) motor that meets the regulations of each country is installed. The model name will be DN or D.
4. In the case of power supply specification is not 200V50Hz/60Hz or 220V60Hz, the Totally Enclosed Fan-cooled (non-explosion-proof) motor is installed. The model name will be DN or D.



※Performance values might change from those shown on custom order specifications.

# PiE-SDN

See page 17 for dust explosion diffusion type vacuum cleaners

## Dust explosion pressure diffusion type dust collector with pulse jet dust removal system

Fullfilling safety measures.
Dust collector for explosive and flammable dust, aluminum and so on.

Pulse jet type (By differential pressure detection)

Effect on Kst values of 700
※Except DN

Molded cartridge filter
(Anti-electrostatic filter)

### Dust-proof electrical equipment box

Structure is sealed by packing to make dust explosions unlikely to occur.

### Check valve

Prevents reverse flow of blow force or fire to protect the worker.

### Explosion pressure diffusion port

Pressure from explosion is discharged into air to prevent damage to the equipment.

Molded anti-electrostatic filter | Pulse jet | Inflammable powder/ dust that might explode | Max. airflow 150 m/min | Premium efficiency motor ※Except PiE-30SDN/45SDN

| Model | Kst value (x10³kPa·m/s or less) | Pmax(×10⁵kPa or less) |
|---|---|---|
| PiE-30SDN | 700 | 11.5 |
| PiE-45SDN | 700 | 11.5 |
| PiE-60DN | 300 | 11.0 |
| PiE-75DN | 300 | 11.0 |
| PiE-120DN | 300 | 11.0 |
| PiE-150DN | 300 | 11.0 |

Effective area was calculated based on "Explosive pressure discharge device technical guidelines(Revised version)NIIS-TR-No.38(2005)" in incorporated agency industrial safety institute laws.
Above figures are for standard equipment.
Please have the target dust evaluated for explosion potential (billed to customer).

### Specifications

| Model | | | PiE-30SDN | | | PiE-45SDN | | | PiE-60DN | | | PiE-75DN | | | PiE-120DN | | | PiE-150DN | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Power supply | | | Frequency 50Hz or 60Hz at 3-phase 200V | | | | | | | | | | | | | | | | | |
| Output | | kW | 1. 5 | | | 2.2 | | | 3.7 | | | 5.5 | | | 7.5 | | | 5.5×2 | | |
| | | HP | 2 | | | 3 | | | 5 | | | 7.3 | | | 10 | | | 7.3×2 | | |
| Airflow | | m³/min | 0 | 15 | 25 | 0 | 20 | 35 | 0 | 35 | 55 | 0 | 50 | 85 | 0 | 65 | 105 | 0 | 100 | 150 |
| | | cfm | 0 | 529 | 882 | 0 | 882 | 1236 | 0 | 1236 | 1942 | 0 | 1765 | 3001 | 0 | 2295 | 3708 | 0 | 3531 | 5297 |
| Static pressure [kPa] | | | 2.72 | 1.71 | 0.60 | 2.72 | 1.71 | 0.90 | 2.73 | 2.03 | 0.92 | 3.10 | 2.53 | 0.76 | 3.20 | 2.41 | 0.59 | 3.10 | 2.27 | 0.72 |
| Filter | Area | m² | 9.0 | | | 13.5 | | | 18.0 | | | 27.0 | | | 36.0 | | | 54.0 | | |
| | | ft² | 96.8 | | | 145.2 | | | 193.6 | | | 290.5 | | | 387.3 | | | 581.0 | | |
| | Quantity | | 4 | | | 6 | | | 8 | | | 12 | | | 16 | | | 24 | | |
| | Shape | | Molded cartridge (Anti-electrostatic filter with grounding conductor) | | | | | | | | | | | | | | | | | |
| | Dust removal | | Automatic pulse jet (By differential pressure detection) | | | | | | | | | Automatic pulse jet (M:pressure differential detection,J:fixed period) | | | | | | | | |
| Compressed air consumption [L/min] | | | 17 | | | 25 | | | 33 | | | 46 | | | 55 | | | 82 | | |
| Diaphragm valve [pcs.] | | | 2 | | | 3 | | | 4 | | | 4 | | | 4 | | | 6 | | |
| Recommended breakers [A] | | | 15 | | | 20 | | | 30 | | | 50 | | | 60 | | | 75 | | |
| Power cord | | m | 5 (4-core, without plug) | | | | | | | | | – | | | | | | | | |
| | | inch | 196 (4-core, without plug) | | | | | | | | | – | | | | | | | | |
| Suction port diameter | | mm | Φ150 | | | Φ200 | | | Φ250 | | | Φ290 | | | Φ290 | | | Φ380 | | |
| | | inch | Φ6 | | | Φ8 | | | Φ10 | | | Φ11.5 | | | Φ11.5 | | | Φ15 | | |
| Dimensions W×D×H | | mm | 854×1438×1850 | | | 1075×1488×1907 | | | 1160×1244×2144 | | | BL:2211×1073×2615<br>BS:2211×1073×2298 | | | BL:2285×1464×3300<br>BS:2285×1464×2896 | | | BL:2765×1544×3683<br>– | | |
| | | inch | 33.7×56.7×72.9 | | | 42.4×58.6×75.1 | | | 45.7×49.0×84.5 | | | BL:87.1×42.3×103<br>BS:87.1×42.3×90.5 | | | BL:90×57.7×130<br>BS:90×57.7×114.1 | | | BL:108.9×60.8×145<br>– | | |
| Bucket capacity | | L | 22 | | | 35 | | | 25×2 | | | BL:70×1<br>BS:30×2 | | | BL:60×1<br>BS:37×2 | | | BL:70×2<br>– | | |
| | | U.S.gallon | 5.8 | | | 9.2 | | | 6.6×2 | | | BL:18.4×1<br>BS:7.9×2 | | | BL:15.8×1<br>BS:9.7×2 | | | BL:18.4×2<br>– | | |
| Weight | | kg | 370 | | | 460 | | | 550 | | | BL:700<br>BS:650 | | | BL:980<br>BS:920 | | | BL:1460<br>– | | |
| | | lb | 816 | | | 1015 | | | 1213 | | | BL:1544<br>BS:1433 | | | BL:2161<br>BS:2029 | | | BL:3219<br>– | | |
| Paint color | | | JPMA (Japan Paint Manufacturing Association) S11-344 | | | | | | | | | | | | | | | | | |

1. The dimensions mentioned above are only for the main unit. A check valve, an electrical box, the roof of outdoor specifications are not included.
2. A dust explosion-proof motor (motor having structure to prevent the invasion of the outside substance) is installed on PiE-30SDN and PiE-45SDN.
3. For countries with high efficiency motor regulation, the high efficiency Totally Enclosed Fan-cooled (non-explosion-proof) motor that meets the regulations of each country is installed. The model name will be DN or D.
4. In the case of power supply specification is not 200V50Hz/60Hz or 220V60Hz, the Totally Enclosed Fan-cooled (non-explosion-proof) motor is installed. The model name will be DN or D.

# PiF-D/SD

## Dust explosion pressure diffusion type dust collector with pulse jet dust removal system

Fullfilling safety measures.
Dust collector for explosive and flammable dust, aluminum and so on.

Pulse jet type (By differential pressure detection)

Effect on Kst values of 400
※Except PiF-75D/ 120D/150D

Molded cartridge filter
(Anti-electrostatic filter)

### Check valve

Prevents reverse flow of blow force or fire to protect the worker.

### Explosion pressure diffusion port

Pressure from explosion is discharged into air to prevent damage to the equipment.

Molded anti-electrostatic filter | Pulse jet | Inflammable powder/ dust that might explode | Max. airflow 150 m/min | Premium efficiency motor ※Except PiF-30SD/45SD

| Model | Kst value (x10³kPa·m/s or less) | Pmax(×10⁵kPa or less) |
|---|---|---|
| PiF-30D | 400 | 11.5 |
| PiF-45D | 400 | 11.5 |
| PiF-60D | 400 | 11.5 |
| PiF-75D | 300 | 11.0 |
| PiF-120D | 300 | 11.0 |
| PiF-150D | 300 | 11.0 |
| PiF-30SD | 400 | 11.5 |
| PiF-45SD | 400 | 11.5 |

Effective area was calculated based on "Explosive pressure discharge device technical guidelines(Revised version)NIIS-TR-No.38(2005)" in incorporated agency industrial safety institute laws.
Above figures are for standard equipment.
Please have the target dust evaluated for explosion potential (billed to customer).

### Specifications

| Model | | | PiF-30D | | | PiF-45D | | | PiF-60D | | | PiF-75D | | | PiF-120D | | | PiF-150D | | | PiF-30SD | | | PiF-45SD | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Power supply | | | 3-phase 200V 50/60Hz common use | | | | | | | | | | | | | | | | | | Frequency 50Hz or 60Hz at 3-phase 200V | | | | | |
| Motor | Output | kW | 1.35 | | | 2.0 | | | 3.1 | | | 5.5 | | | 7.5 | | | 11.0 | | | 1.5 | | | 2.2 | | |
| | | HP | 1.8 | | | 2.6 | | | 4.1 | | | 7.3 | | | 10.0 | | | 15.0 | | | 2.0 | | | 3.0 | | |
| | Inverter | | Standard equipment | | | | | | | | | | | | | | | | | | – | | | | | |
| | Efficiency | | IE3 | | | | | | | | | | | | | | | | | | IE1 (Dust explosion-proof motor) | | | | | |
| Airflow | | m³/min | 0 | 15 | 30 | 0 | 22.5 | 45 | 0 | 35 | 60 | 0 | 50 | 75 | 0 | 65 | 105 | 0 | 100 | 150 | 0 | 15 | 22 | 0 | 22.5 | 35 |
| | | cfm | 0 | 529 | 1059 | 0 | 794 | 1589 | 0 | 1236 | 2118 | 0 | 1765 | 2648 | 0 | 2295 | 3708 | 0 | 3531 | 5297 | 0 | 529 | 776 | 0 | 794 | 1236 |
| Static pressure [kPa] | | | 2.75 | 2.00 | 0.80 | 2.75 | 2.20 | 0.40 | 3.00 | 2.20 | 0.50 | 3.10 | 2.50 | 0.90 | 3.20 | 2.41 | 0.59 | 3.10 | 2.27 | 0.72 | 2.75 | 1.72 | 0.49 | 2.75 | 1.62 | 0.35 |
| Filter | Area | m² | 12.0 | | | 18.0 | | | 24.0 | | | 38.4 | | | 57.6 | | | 86.4 | | | 12.0 | | | 18.0 | | |
| | | ft² | 129.1 | | | 193.6 | | | 258.2 | | | 413.4 | | | 620.0 | | | 930.0 | | | 129.1 | | | 193.6 | | |
| | Quantity | | 4 | | | 6 | | | 8 | | | 8 | | | 12 | | | 18 | | | 4 | | | 6 | | |
| | Shape | | Molded cartridge (length:500mm) (Anti-electrostatic filter) | | | | | | Molded cartridge (length:750mm) (Anti-electrostatic filter) | | | | | | | | | | | | Molded cartridge (length:500mm) (Anti-electrostatic filter) | | | | | |
| | Dust removal | | Automatic pulse jet (by differential pressure detection) | | | | | | | | | | | | | | | | | | | | | | | |
| Compressed air consumption [L/min] | | | 36 | | | 45 | | | 67 | | | 75 | | | 86 | | | 100 | | | 36 | | | 45 | | |
| Diaphragm valve [pcs.] | | | 2 | | | 3 | | | 4 | | | 4 | | | 6 | | | 6 | | | 2 | | | 3 | | |
| Recommended breakers [A] | | | 15 | | | 20 | | | 30 | | | 50 | | | 60 | | | 75 | | | 15 | | | 20 | | |
| Power cord | | m | 5 (4-core, without plug) | | | | | | | | | Option (4-core) | | | | | | | | | 5 (4-core, without plug) | | | | | |
| | | inch | 196 (4-core, without plug) | | | | | | | | | Option (4-core) | | | | | | | | | 196 (4-core, without plug) | | | | | |
| Bucket capacity | | L | 27 | | | 38 | | | 27×2 | | | 22.5×2 | | | 22.5×3 | | | 22.5×3 | | | 27 | | | 38 | | |
| | | U.S.gallon | 7.1 | | | 10.0 | | | 7.1×2 | | | 5.9×2 | | | 5.9×3 | | | 5.9×3 | | | 7.1 | | | 10.0 | | |
| Suction port diameter | | mm | Φ150 | | | Φ200 | | | Φ250 | | | Φ290 | | | | | | Φ380 | | | Φ150 | | | Φ200 | | |
| | | inch | Φ6 | | | Φ8 | | | Φ10 | | | Φ11.5 | | | | | | Φ15 | | | Φ6 | | | Φ8 | | |
| Dimensions W×D×H | | mm | 607×1243×1569 | | | 786×1228×1600 | | | 950×1209×1774 | | | 950×1519×2292 | | | 1398×1650×2389 | | | 1484×2009×3055 | | | 556×1245×2247 | | | 681×1237×2392 | | |
| | | inch | 23.9×48.9×61.7 | | | 30.9×48.3×62.9 | | | 39.0×47.5×69.8 | | | 37.4×59.8×90.2 | | | 55.0×65.0×94.0 | | | 58.4×79.1×118.3 | | | 21.8×49.0×88.4 | | | 26.8×48.7×94.1 | | |
| Weight | | kg | 290 | | | 340 | | | 465 | | | 520 | | | 710 | | | 1020 | | | 375 | | | 435 | | |
| | | lb | 640 | | | 750 | | | 1026 | | | 1147 | | | 1566 | | | 2249 | | | 827 | | | 959 | | |
| Paint color | | | JPMA (Japan Paint Manufacturing Association) S11-344 | | | | | | | | | | | | | | | | | | | | | | | |

1. The dimensions mentioned above are only for the main unit. A check valve, an electrical box, the roof of outdoor specifications are not included.
2. A dust explosion-proof motor (motor having structure to prevent the invasion of the outside substance) is installed on PiF-30SD and PiF-45SD.

※Notes 3 and 4 in above PiE-SDN are not applicable when changing PiF-SD motor.

## SNP

**Pulse jet type dust collector**

Space saving dust collector from the use of plate filter.

Moderate pressure large blow force

SNP-5H2W

Plate filter

Plate filter | Pulse jet | General dry dust | 450 ㎡ Filter area

Paint color JPMA (Japan Paint Manufactuirng Association) 634

See page 27 of specification table

## SI

**Pulse jet type dust collector**

Down flow & Side inlet type woven filter
Safe and hygienic filter replacement

Moderate pressure large blow force

SI-1004

※Suction connection piping etc are not included.

Woven filter

Woven filter | Pulse jet | General dry dust | 100 ㎡ Filter area

Paint color JPMA (Japan Paint Manufactuirng Association) F35-85A

See page 30 of specification table

## WRT/WRT-ST

**Pulse jet type dust collector**

Bestseller among large blowforce dust collectors
Large filter selection gives wide-ranging response potential(WRT)
Space saving & low cost by Molded cartridge filter(WRT-ST)

Moderate pressure large blow force

WRT-10320

WRT-5154ST

Woven filter

Molded cartridge filter

(WRT) Woven filter | Pulse jet | General dry dust | 1055 ㎡ Filter area

(WRT-ST) Molded filter | Pulse jet | General dry dust | 816 ㎡ Filter area

Paint color JPMA (Japan Paint Manufactuirng Association) 634

See page 27~29 of specification table

## BV

**Pulse jet type dust collector**

Ideal for air bleeding from silos and hoppers.

Moderate pressure medium blow force

BV-1009

Woven filter

Woven filter | Pulse jet | General dry dust | 35 ㎡ Filter area

Paint color JPMA (Japan Paint Manufactuirng Association) 634

See page 30 of specification table

## CT

**Pulse jet type dust collector**

High vacuum resistant body ideal for pneumatic conveying and central cleaning.

High pressure medium blow force

CT-1008

Woven filter

Woven filter | Pulse jet | General dry dust | 90 ㎡ Filter area

Paint color JPMA (Japan Paint Manufactuirng Association) 634

See page 30 of specification table

※Performance values might change from those shown on custom order specifications.



## PPC

**Pulse jet type dust collector**

Molded filter type
Ideal for air bleeding from silos and hoppers.

Moderate pressure medium blow force

PPC-3066

Molded cartridge filter

Molded filter | Pulse jet | General dry dust | 75 ㎡ Filter area

Paint color JPMA (Japan Paint Manufactuirng Association) 634

See page 31 of specification table

## MF

**Pulse jet type dust collector**

Compact, cylindrical body is ideal for intake of pneumatic conveying.

High pressure medium blow force

MF-2004

Molded cartridge filter

Molded filter | Pulse jet | General dry dust | 18 ㎡ Filter area

Paint color JPMA (Japan Paint Manufactuirng Association) 634

See page 32 of specification table

## TFP

**Bag-in, bag-out dust collector**

The bag-in bag-out concept allows replacing filters & ejecting dust without touching the dust.

Bag-in Bag-out

TFP-0403

Molded cartridge filter

Molded filter | Pulse jet | General dry dust | 81 ㎡ Filter area

Paint color JPMA (Japan Paint Manufactuirng Association) 634

See page 32 of specification table

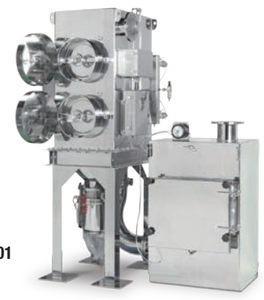
## TFP-S

**High-pharmacologically-active dust collector.**

High-pharmacologically-active dust collector.

Effective on high-pharmacologically-active powder

- Bag-in Bag-out type
- Wet-down
- Liner packs



TFP-S0201

Molded filter | Pulse jet | High chemically active powder | 33 ㎡ Filter area

See page 32 of specification table

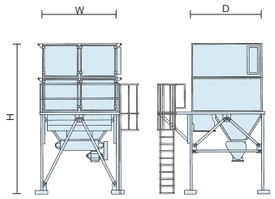
## HGD

**High temperature toxic gas removal device**

Removes dioxins, acid gas, heavy metals and fine particles from high temperature incinerated gas.

Compatible with dioxins

We design to match customer needs.

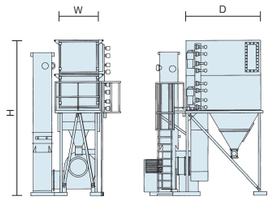



### Model description

Basic unit is expressed by 1H1W. A total of 34 filters are installed inside and provide a total surface area of 45 square meters. Assembling these units horizontally and vertically gives the model type shown at right. Model types combinable as standard configurations in this catalog are listed.

Example : **SNP-3H 2W**

Number of vertical units ↑ ↑ Number of horizontal units




### SNP-M series fans·exhaust muffler specifications

- Fans are selectable from following types.
  (Specify a power frequency of 50Hz/60Hz.)
  Select from among the SNP-1M
  …output 5.5kW•7.5kW•11kW types
  Select from among the SNP-2M
  …output11kW•15kW•18.5kW types.
  Select from among the SNP-3M
  …output15kW•18.5kW•22kW•30kW types.
- Type of exhaust muffler is determined by the fan type that was selected.

# SNP

●Filter: Plate filter ●Dust removal: Automatic pulse jet

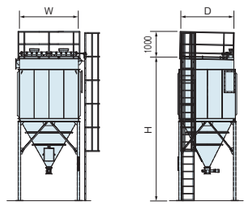
## SNP

| Model | Dimensions | | | | | | Filter | | | No. of valves | Air supplied quantity [L /min] | Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | | | inch | | | Area | | Quantity | | | | |
| | W | D | H | W | D | H | $m^2$ | $ft^2$ | | | | kg | lb |
| SNP-2H1W | 1150 | 2182 | 4708 | 45.3 | 86.0 | 185.4 | 90 | 968 | 68 | 8 | 187 | 1550 | 3418 |
| -3H1W | 1150 | 2182 | 5808 | 45.3 | 86.0 | 228.7 | 135 | 1452 | 102 | 12 | 280 | 2100 | 4631 |
| -4H1W | 1150 | 2182 | 6908 | 45.3 | 86.0 | 272.0 | 180 | 1936 | 136 | 16 | 420 | 2500 | 5513 |
| -2H2W | 2300 | 2182 | 5031 | 90.6 | 86.0 | 198.1 | 180 | 1936 | 136 | 16 | 420 | 3100 | 6836 |
| -3H2W | 2300 | 2182 | 6131 | 90.6 | 86.0 | 241.4 | 270 | 2905 | 204 | 24 | 560 | 4200 | 9261 |
| -4H2W | 2300 | 2182 | 7231 | 90.6 | 86.0 | 284.7 | 360 | 3873 | 272 | 32 | 700 | 5100 | 11246 |
| -5H2W | 2300 | 2344 | 8331 | 90.6 | 92.3 | 328.0 | 450 | 4842 | 340 | 40 | 840 | 6300 | 13892 |

## SNP-M Series (General purpose filtration system)

| Model | | | SNP-1M | SNP-2M | SNP-3M |
|---|---|---|---|---|---|
| Filter Box Unit | Filter area | $m^2$ | 45 | 90 | 135 |
| | | $ft^2$ | 484 | 968 | 1452 |
| | Quantity | | 34 | 68 | 102 |
| | Dimensions W×D×H | mm | 1150×2182×3608 | 1150×2182×4708 | 1150×2182×5808 |
| | | inch | 45.3×86.0×142.1 | 45.3×86.0×185.4 | 45.3×86.0×228.7 |
| | Weight | kg | 1200 | 1650 | 2200 |
| | | lb | 2646 | 3639 | 4851 |
| Dust removal system (Pulse jet: stationary type) | No. of valves | | 4 | 8 | 12 |
| | Air supplied quantity [L/min] | | 140 | 187 | 280 |
| Discharge unit | | | Rotary valve | | |
| Control panel | | | Indoor wall-mounted type (standard) / Outdoor type (option) | | |

| Model application range | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Applicable model: SNP-1M | | | | | | |
| | | | Applicable model: SNP-2M | | | | | |
| | | | | | Applicable model: SNP-3M | | | |
| Output | kW | 5.5 | 7.5 | 11 | 15 | 18.5 | 22 | 30 |
| | HP | 7.3 | 10 | 15 | 20 | 25 | 30 | 40 |
| Airflow | $m^3$/min | 45 | 65 | 90 | 135 | 180 | 200 | 270 |
| | cfm | 1589 | 2295 | 3178 | 4767 | 6356 | 7062 | 9534 |
| Static pressure [kPa] | | 3.92 | | | | | | |
| Fan type | | Single inlet type turbo fan (motor direct-coupled type) | | | | | | |
| Auxiliaries | | Manually airflow adjusting valve | | | | | | |
| Type of exhaust silencer | Exhaust pipe diameter mm | φ380 | | φ550 | | φ650 | | |
| | Exhaust pipe diameter inch | φ15 | | φ21.7 | | φ25.6 | | |
| | Noise suppression | 10 dB (A) reduction from original fan noise | | | | | | |



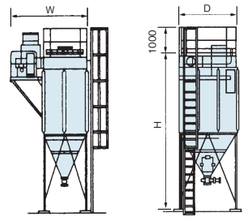

# WRT

●Filter: Woven filter ●Dust removal: Automatic pulse jet

## WRT-3000/5000 Series (with a separate fan)

B: Bottom inlet T: Top inlet

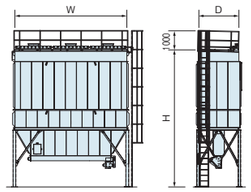
| Model | Dimensions | | | | | | Filter | | | | | No. of valves | Air supplied quantity [L/min] | Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | | | inch | | | Area | | Quantity | Length | | | | | |
| | W | D | H | W | D | H | $m^2$ | $ft^2$ | | mm | inch | | | kg | lb |
| WRT-3054B | 1200 | 1810 | 5185 | 47.3 | 71.3 | 204.2 | 51.5 | 554 | 54 | 1933 | 76 | 6 | 150 | 1700 | 3749 |
| -3072B | 1600 | 1810 | 5185 | 63.0 | 71.3 | 204.2 | 68.6 | 738 | 72 | 1933 | 76 | 8 | 200 | 2000 | 4410 |
| -3090B | 2000 | 1810 | 5185 | 78.8 | 71.3 | 204.2 | 85.8 | 923 | 90 | 1933 | 76 | 10 | 240 | 2200 | 4851 |
| -3108B | 2400 | 1810 | 5779 | 94.5 | 71.3 | 227.6 | 102.9 | 1107 | 108 | 1933 | 76 | 12 | 290 | 2500 | 5513 |
| -3054T | 1200 | 2160 | 5579 | 47.3 | 85.1 | 219.7 | 51.5 | 554 | 54 | 1933 | 76 | 6 | 150 | 1900 | 4190 |
| -3072T | 1600 | 2160 | 5579 | 63.0 | 85.1 | 219.7 | 68.6 | 738 | 72 | 1933 | 76 | 8 | 200 | 2200 | 4851 |
| -3090T | 2000 | 2160 | 5579 | 78.8 | 85.1 | 219.7 | 85.8 | 923 | 90 | 1933 | 76 | 10 | 240 | 2500 | 5513 |
| -3108T | 2400 | 2160 | 5869 | 94.5 | 85.1 | 231.1 | 102.9 | 1107 | 108 | 1933 | 76 | 12 | 290 | 2800 | 6174 |
| -5054B | 1200 | 1810 | 5755 | 47.3 | 71.3 | 226.6 | 67.6 | 727 | 54 | 2540 | 100 | 6 | 150 | 1900 | 4190 |
| -5072B | 1600 | 1810 | 5755 | 63.0 | 71.3 | 226.6 | 90.1 | 969 | 72 | 2540 | 100 | 8 | 200 | 2200 | 4851 |
| -5090B | 2000 | 1810 | 5755 | 78.8 | 71.3 | 226.6 | 112.7 | 1212 | 90 | 2540 | 100 | 10 | 240 | 2500 | 5513 |
| -5108B | 2400 | 1810 | 6345 | 94.5 | 71.3 | 249.9 | 135.2 | 1454 | 108 | 2540 | 100 | 12 | 290 | 2700 | 5954 |
| -5054T | 1200 | 2160 | 6149 | 47.3 | 85.1 | 242.1 | 67.6 | 727 | 54 | 2540 | 100 | 6 | 150 | 2000 | 4410 |
| -5072T | 1600 | 2160 | 6149 | 63.0 | 85.1 | 242.1 | 90.1 | 969 | 72 | 2540 | 100 | 8 | 200 | 2300 | 5072 |
| -5090T | 2000 | 2160 | 6149 | 78.8 | 85.1 | 242.1 | 112.7 | 1212 | 90 | 2540 | 100 | 10 | 240 | 2600 | 5733 |
| -5108T | 2400 | 2160 | 6439 | 94.5 | 85.1 | 253.6 | 135.2 | 1454 | 108 | 2540 | 100 | 12 | 290 | 3100 | 6836 |
| -3126B | 2800 | 1810 | 5404 | 110.3 | 71.3 | 212.8 | 120.1 | 1292 | 126 | 1933 | 76 | 14 | 340 | 2800 | 6174 |
| -3144B | 3200 | 1810 | 5404 | 126.0 | 71.3 | 212.8 | 137.2 | 1476 | 144 | 1933 | 76 | 16 | 390 | 3200 | 7056 |
| -3126T | 2800 | 2160 | 5704 | 110.3 | 85.1 | 224.6 | 120.1 | 1292 | 126 | 1933 | 76 | 14 | 340 | 3200 | 7056 |
| -3144T | 3200 | 2160 | 5704 | 126.0 | 85.1 | 224.6 | 137.2 | 1476 | 144 | 1933 | 76 | 16 | 390 | 3400 | 7497 |
| -5126B | 2800 | 1810 | 5974 | 110.3 | 71.3 | 235.2 | 157.8 | 1697 | 126 | 2540 | 100 | 14 | 340 | 3200 | 7056 |
| -5144B | 3200 | 1810 | 5974 | 126.0 | 71.3 | 235.2 | 180.3 | 1940 | 144 | 2540 | 100 | 16 | 390 | 3500 | 7718 |
| -5126T | 2800 | 2160 | 6274 | 110.3 | 85.1 | 247.1 | 157.8 | 1697 | 126 | 2540 | 100 | 14 | 340 | 3500 | 7718 |
| -5144T | 3200 | 2160 | 6274 | 126.0 | 85.1 | 247.1 | 180.3 | 1940 | 144 | 2540 | 100 | 16 | 390 | 3900 | 8510 |
| -5162T | 3600 | 2160 | 6274 | 141.8 | 85.1 | 247.1 | 202.8 | 2182 | 162 | 2540 | 100 | 18 | 440 | 4200 | 9261 |
| -5180T | 4000 | 2160 | 6274 | 157.5 | 85.1 | 247.1 | 225.4 | 2425 | 180 | 2540 | 100 | 20 | 480 | 4700 | 10364 |
| -5198T | 4400 | 2160 | 6274 | 173.3 | 85.1 | 247.1 | 247.9 | 2667 | 198 | 2540 | 100 | 22 | 530 | 5000 | 11025 |




## WRT-3000/5000 Series (with an onboard fan)

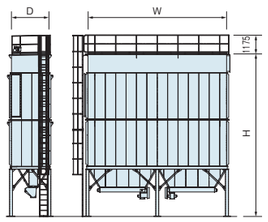
B: Bottom inlet T: Top inlet

| Model | Dimensions | | | | | | Airflow | | Static pressure [kPa] | Output | | Filter | | | | | No. of valves | Air supplied quantity [L/min] | Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | | | inch | | | | | | | | Area | | Quantity | Length | | | | | |
| | W | D | H | W | D | H | $m^3$/min | cfn | | kW | HP | $m^2$ | $ft^2$ | | mm | inch | | | kg | lb |
| WRT-3054BF | 2565 | 1810 | 5185 | 101.0 | 71.3 | 204.2 | 50 | 1765 | | 5.5 | 7.3 | 51.5 | 554 | 54 | 1933 | 76 | 6 | 150 | 2300 | 5072 |
| | | | | | | | 70 | 2472 | | 7.5 | 10 | | | | | | | | | |
| | | | | | | | 90 | 3178 | | 11 | 15 | | | | | | | | | |
| | | | | | | | 100 | 3531 | | 11 | 15 | | | | | | | | | |
| | | | | | | | 120 | 4237 | | 15 | 20 | | | | | | | | | |
| -3072BF | 2965 | 1810 | 5185 | 116.8 | 71.3 | 204.2 | 70 | 2472 | | 7.5 | 10 | 68.6 | 738 | 72 | 1933 | 76 | 8 | 200 | 2600 | 5733 |
| | | | | | | | 90 | 3178 | | 11 | 15 | | | | | | | | | |
| | | | | | | | 110 | 3884 | | 11 | 15 | | | | | | | | | |
| | | | | | | | 140 | 4944 | | 15 | 20 | | | | | | | | | |
| | 3065 | 1810 | 5185 | 120.7 | 71.3 | 204.2 | 180 | 6356 | | 18.5 | 25 | | | | | | | | | |
| -3090BF | 3365 | 1810 | 5185 | 132.5 | 71.3 | 204.2 | 90 | 3178 | | 11 | 15 | 85.8 | 923 | 90 | 1933 | 76 | 10 | 240 | 2800 | 6174 |
| | | | | | | | 110 | 3884 | | 11 | 15 | | | | | | | | | |
| | | | | | | | 140 | 4944 | | 15 | 20 | | | | | | | | | |
| | 3465 | 1810 | 5185 | 136.5 | 71.3 | 204.2 | 180 | 6356 | | 18.5 | 25 | | | | | | | | | |
| | | | | | | | 200 | 7062 | | 18.5 | 25 | | | | | | | | | |
| -3054TF | 2565 | 2160 | 5435 | 101.0 | 85.1 | 214 | 50 | 1765 | | 5.5 | 7.3 | 51.5 | 554 | 54 | 1933 | 76 | 6 | 150 | 2400 | 5292 |
| | | | | | | | 70 | 2472 | | 7.5 | 10 | | | | | | | | | |
| | | | | | | | 90 | 3178 | | 11 | 15 | | | | | | | | | |
| | | | | | | | 100 | 3531 | | 11 | 15 | | | | | | | | | |
| | | | | | | | 120 | 4237 | | 15 | 20 | | | | | | | | | |
| -3072TF | 2965 | 2160 | 5435 | 116.8 | 85.1 | 214 | 70 | 2472 | | 7.5 | 10 | 68.6 | 738 | 72 | 1933 | 76 | 8 | 200 | 2800 | 6174 |
| | | | | | | | 90 | 3178 | | 11 | 15 | | | | | | | | | |
| | | | | | | | 110 | 3884 | | 11 | 15 | | | | | | | | | |
| | | | | | | | 140 | 4944 | | 15 | 20 | | | | | | | | | |
| | 3065 | 2160 | 5435 | 120.7 | 85.1 | 214 | 180 | 6356 | | 18.5 | 25 | | | | | | | | | |
| -3090TF | 3365 | 2160 | 5435 | 132.5 | 85.1 | 214.0 | 90 | 3178 | 3.43 | 11 | 15 | 85.8 | 923 | 90 | 1933 | 76 | 10 | 240 | 3100 | 6836 |
| | | | | | | | 110 | 3884 | | 11 | 15 | | | | | | | | | |
| | | | | | | | 140 | 4944 | | 15 | 20 | | | | | | | | | |
| | 3465 | 2160 | 5435 | 136.5 | 85.1 | 214.0 | 180 | 6356 | | 18.5 | 25 | | | | | | | | | |
| | | | | | | | 200 | 7062 | | 18.5 | 25 | | | | | | | | | |
| -5054BF | 2565 | 1810 | 5755 | 101.0 | 71.3 | 226.6 | 70 | 2472 | | 7.5 | 10 | 67.6 | 727 | 54 | 2540 | 100 | 6 | 150 | 2500 | 5513 |
| | | | | | | | 90 | 3178 | | 11 | 15 | | | | | | | | | |
| | | | | | | | 110 | 3884 | | 11 | 15 | | | | | | | | | |
| -5072BF | 2965 | 1810 | 5755 | 116.8 | 71.3 | 226.6 | 90 | 3178 | | 11 | 15 | 90.1 | 969 | 72 | 2540 | 100 | 8 | 200 | 2800 | 6174 |
| | | | | | | | 120 | 4237 | | 15 | 20 | | | | | | | | | |
| | | | | | | | 140 | 4944 | | 15 | 20 | | | | | | | | | |
| -5090BF | 3365 | 1810 | 5755 | 132.5 | 71.3 | 226.6 | 110 | 3884 | | 11 | 15 | 112.7 | 1212 | 90 | 2540 | 100 | 10 | 240 | 3200 | 7056 |
| | | | | | | | 140 | 4944 | | 15 | 20 | | | | | | | | | |
| | 3465 | 1810 | 5755 | 136.5 | 71.3 | 226.6 | 180 | 6356 | | 18.5 | 25 | | | | | | | | | |
| -5054TF | 2565 | 2160 | 6005 | 101.0 | 85.1 | 236.5 | 70 | 2472 | | 7.5 | 10 | 67.6 | 727 | 54 | 2540 | 100 | 6 | 150 | 2600 | 5733 |
| | | | | | | | 90 | 3178 | | 11 | 15 | | | | | | | | | |
| | | | | | | | 110 | 3884 | | 11 | 15 | | | | | | | | | |
| | | | | | | | 140 | 4944 | | 15 | 20 | | | | | | | | | |
| | 2665 | 2160 | 6005 | 105.0 | 85.1 | 236.5 | 180 | 6356 | | 18.5 | 25 | | | | | | | | | |
| -5072TF | 2965 | 2160 | 6005 | 116.8 | 85.1 | 236.5 | 90 | 3178 | | 11 | 15 | 90.1 | 969 | 72 | 2540 | 100 | 8 | 200 | 2900 | 6395 |
| | | | | | | | 120 | 4237 | | 15 | 20 | | | | | | | | | |
| | | | | | | | 140 | 4944 | | 15 | 20 | | | | | | | | | |
| | 3065 | 2160 | 6005 | 120.7 | 85.1 | 236.5 | 180 | 6356 | | 18.5 | 25 | | | | | | | | | |
| | | | | | | | 200 | 7062 | | 18.5 | 25 | | | | | | | | | |
| -5090TF | 3365 | 2160 | 6005 | 132.5 | 85.1 | 236.5 | 110 | 3884 | | 11 | 15 | 112.7 | 1212 | 90 | 2540 | 100 | 10 | 240 | 3200 | 7056 |
| | | | | | | | 140 | 4944 | | 15 | 20 | | | | | | | | | |
| | 3465 | 2160 | 6005 | 136.5 | 85.1 | 236.5 | 180 | 6356 | | 18.5 | 25 | | | | | | | | | |
| | | | | | | | 200 | 7062 | | 18.5 | 25 | | | | | | | | | |



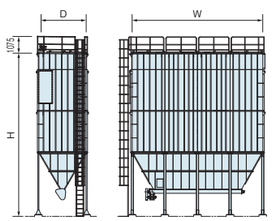

## WRT-7000 Series (with a separate fan)

| Model | Dimensions | | | | | | Filter | | | | | | | | No. of valves | Air supplied quantity [L/min] | Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | | | inch | | | Area | | Quantity | | Length | | | | | | | |
| | | | | | | | | | | | mm | | inch | | | | | |
| | W | D | H | W | D | H | $m^2$ | $ft^2$ | Long | Short | Long | Short | Long | Short | | | kg | lb |
| WRT-7080 | 2000 | 2160 | 7254 | 78.8 | 85.1 | 285.6 | 132.7 | 1427 | 72 | 8 | 3500 | 2133 | 138 | 84 | 10 | 330 | 3300 | 7275 |
| -7096 | 2400 | 2160 | 7644 | 94.5 | 85.1 | 301 | 160.3 | 1724 | 88 | 8 | 3500 | 2133 | 138 | 84 | 12 | 400 | 3800 | 8378 |
| -7112 | 2800 | 2160 | 7794 | 110.3 | 85.1 | 306.8 | 182.5 | 1963 | 96 | 16 | 3500 | 2133 | 138 | 84 | 14 | 460 | 4300 | 9480 |
| -7128 | 3200 | 2160 | 8054 | 126.0 | 85.1 | 317 | 210.1 | 2260 | 112 | 16 | 3500 | 2133 | 138 | 84 | 16 | 530 | 4900 | 10803 |
| -7144 | 3600 | 2160 | 7379 | 141.8 | 85.1 | 290.5 | 237.8 | 2558 | 128 | 16 | 3500 | 2133 | 138 | 84 | 18 | 590 | 5300 | 11685 |
| -7160 | 4000 | 2160 | 7379 | 157.5 | 85.1 | 290.5 | 265.4 | 2855 | 144 | 16 | 3500 | 2133 | 138 | 84 | 20 | 660 | 5800 | 12787 |
| -7176 | 4400 | 2160 | 7379 | 173.3 | 85.1 | 290.5 | 287.6 | 3094 | 152 | 24 | 3500 | 2133 | 138 | 84 | 22 | 720 | 6200 | 13669 |
| -7192 | 4800 | 2160 | 7379 | 189.0 | 85.1 | 290.5 | 315.2 | 3391 | 168 | 24 | 3500 | 2133 | 138 | 84 | 24 | 790 | 6600 | 14551 |
| -7208 | 5200 | 2160 | 7379 | 204.8 | 85.1 | 290.5 | 342.8 | 3688 | 184 | 24 | 3500 | 2133 | 138 | 84 | 26 | 860 | 7100 | 15653 |
| -7224 | 5600 | 2160 | 7379 | 220.5 | 85.1 | 290.5 | 365.1 | 3928 | 192 | 32 | 3500 | 2133 | 138 | 84 | 28 | 920 | 7500 | 16535 |
| -7240 | 6000 | 2160 | 7379 | 236.3 | 85.1 | 290.5 | 392.7 | 4225 | 208 | 32 | 3500 | 2133 | 138 | 84 | 30 | 990 | 8000 | 17637 |



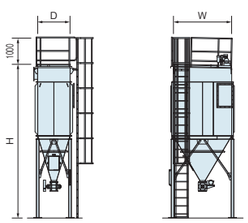

## WRT-S10000 Series (with a separate fan)

| Model | Dimensions | | | | | | Filter | | | | | | | | No. of valves | Air supplied quantity [L/min] | Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | | | inch | | | Area | | Quantity | | Length | | | | | | | |
| | | | | | | | | | | | mm | | inch | | | | | |
| | W | D | H | W | D | H | $m^2$ | $ft^2$ | Long | Short | Long | Short | Long | Short | | | kg | lb |
| WRT-S10112 | 2800 | 2160 | 8825 | 110.3 | 85.1 | 347.5 | 270.6 | 2912.7 | 104 | 8 | 5080 | 2540 | 200 | 100 | 14 | 460 | 6600 | 14551 |
| -S10128 | 3200 | 2160 | 8825 | 126.0 | 85.1 | 347.5 | 310.7 | 3344.3 | 120 | 8 | 5080 | 2540 | 200 | 100 | 16 | 530 | 7200 | 15874 |
| -S10160 | 4000 | 2160 | 8825 | 157.5 | 85.1 | 347.5 | 390.9 | 4207.6 | 152 | 8 | 5080 | 2540 | 200 | 100 | 20 | 660 | 8500 | 18740 |
| -S10192 | 4800 | 2160 | 8825 | 189.0 | 85.1 | 347.5 | 461.1 | 4963.2 | 176 | 16 | 5080 | 2540 | 200 | 100 | 24 | 780 | 10000 | 22047 |
| -S10224 | 5600 | 2160 | 8825 | 220.5 | 85.1 | 347.5 | 541.2 | 5825.4 | 208 | 16 | 5080 | 2540 | 200 | 100 | 28 | 920 | 11400 | 25133 |
| -S10256 | 6400 | 2160 | 9025 | 252.0 | 85.1 | 355.3 | 621.5 | 6689.8 | 240 | 16 | 5080 | 2540 | 200 | 100 | 32 | 1050 | 13100 | 28881 |
| -S10288 | 7200 | 2160 | 9025 | 283.5 | 85.1 | 355.3 | 691.6 | 7444.3 | 264 | 24 | 5080 | 2540 | 200 | 100 | 36 | 1170 | 14400 | 31747 |
| -S10320 | 8000 | 2160 | 9025 | 315.0 | 85.1 | 355.3 | 771.8 | 8307.6 | 296 | 24 | 5080 | 2540 | 200 | 100 | 40 | 1300 | 15900 | 35054 |



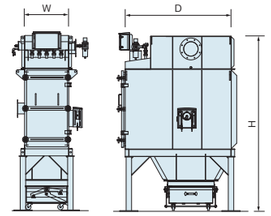

## WRT-19000 Series (with a separate fan)

| Model | Dimensions | | | | | | Filter | | | | | No. of valves | Air supplied quantity [L/min] | Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | | | inch | | | Area | | Quantity | Length | | | | | |
| | W | D | H | W | D | H | $m^2$ | $ft^2$ | | mm | inch | | | kg | lb |
| WRT-19320 | 7000 | 3100 | 10655 | 275.6 | 122.1 | 419.5 | 844.4 | 9085 | 320 | 5350 | 210 | 32 | 1360 | 20800 | 45864 |
| -19360 | 7800 | 3100 | 10655 | 307.1 | 122.1 | 419.5 | 950.0 | 10222 | 360 | 5350 | 210 | 36 | 1520 | 22800 | 50274 |
| -19400 | 8600 | 3100 | 10655 | 338.6 | 122.1 | 419.5 | 1055.6 | 11358 | 400 | 5350 | 210 | 40 | 1690 | 25400 | 56007 |




## WRT-ST

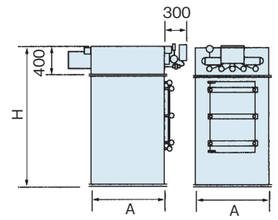
| Model | Dimensions | | | | | | Filter | | | | | No. of valves | Air supplied quantity [L/min] | Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | | | inch | | | Area | | Quantity | Length | | | | | |
| | W | D | H | W | D | H | $m^2$ | $ft^2$ | | mm | inch | | | kg | lb |
| WRT-3042ST | 1200 | | 6704 | 47.3 | | 264.0 | 155.4 | 1672 | 42 | 1455 | 57 | 6 | 210 | 1900 | 4190 |
| -3056ST | 1600 | | 6704 | 63.0 | | 264.0 | 207.2 | 2229 | 56 | 1455 | 57 | 8 | 280 | 2200 | 4851 |
| -3070ST | 2000 | | 6704 | 78.8 | | 264.0 | 259.0 | 2786 | 70 | 1455 | 57 | 10 | 330 | 2500 | 5513 |
| -3084ST | 2400 | | 6994 | 94.5 | | 275.4 | 310.8 | 3344 | 84 | 1455 | 57 | 12 | 390 | 2900 | 6395 |
| -5042ST | 1200 | | 7499 | 47.3 | | 295.3 | 222.6 | 2395 | 42 | 2055 | 81 | 6 | 220 | 2100 | 4631 |
| -5056ST | 1600 | | 7499 | 63.0 | | 295.3 | 296.8 | 3193 | 56 | 2055 | 81 | 8 | 290 | 2400 | 5292 |
| -5070ST | 2000 | 2160 | 7499 | 78.8 | 85.1 | 295.3 | 371.0 | 3991 | 70 | 2055 | 81 | 10 | 340 | 2800 | 6174 |
| -5084ST | 2400 | | 7789 | 94.5 | | 306.7 | 445.2 | 4790 | 84 | 2055 | 81 | 12 | 410 | 3200 | 7056 |
| -5098ST | 2800 | | 7624 | 110.3 | | 300.2 | 519.4 | 5588 | 98 | 2055 | 81 | 14 | 480 | 3700 | 8159 |
| -5112ST | 3200 | | 7624 | 126.0 | | 300.2 | 593.6 | 6387 | 112 | 2055 | 81 | 16 | 550 | 4000 | 8820 |
| -5126ST | 3600 | | 7774 | 141.8 | | 306.1 | 667.8 | 7185 | 126 | 2055 | 81 | 18 | 620 | 4400 | 9702 |
| -5140ST | 4000 | | 7774 | 157.5 | | 306.1 | 742.0 | 7983 | 140 | 2055 | 81 | 20 | 670 | 4800 | 10584 |
| -5154ST | 4400 | | 7774 | 173.3 | | 306.1 | 816.2 | 8782 | 154 | 2055 | 81 | 22 | 730 | 5000 | 11025 |




## SI

●Filter: Woven filter ●Dust removal: Automatic pulse jet

| Model | Dimensions | | | | | | Filter | | | | | No. of valves | Air supplied quantity [L/min] | Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | | | inch | | | Area | | Quantity | Length | | | | | |
| | W | D | H | W | D | H | $m^2$ | $ft^2$ | | mm | inch | | | kg | lb |
| SI-0502 | 600 | 1450 | 2400 | 23.7 | 57.1 | 94.5 | 10 | 107.6 | 10 | 1083 | 42.6 | 5 | 60 | 680 | 1500 |
| -1002 | 1100 | 1450 | 2400 | 43.4 | 57.1 | 94.5 | 20 | 215.2 | 20 | 1083 | 42.6 | 10 | 125 | 950 | 2095 |
| -1004 | 1100 | 1450 | 3500 | 43.4 | 57.1 | 137.8 | 40 | 430.5 | 40 | 1083 | 42.6 | 8 | 100 | 1300 | 2866 |
| -2003 | 2200 | 1500 | 2950 | 122.1 | 59.1 | 116.1 | 60 | 645.8 | 60 | 1083 | 42.6 | 12 | 150 | 2050 | 4520 |
| -2004 | 2200 | 1500 | 3500 | 122.1 | 59.1 | 137.8 | 80 | 861.1 | 80 | 1083 | 42.6 | 16 | 200 | 2500 | 5512 |
| -2005 | 2200 | 1500 | 4050 | 122.1 | 59.1 | 159.4 | 100 | 1076.3 | 100 | 1083 | 42.6 | 20 | 250 | 3000 | 6614 |

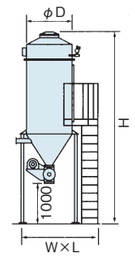



## BV

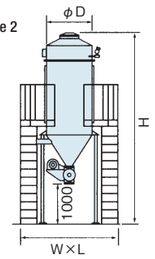
●Filter: Woven filter ●Dust removal: Automatic pulse jet

| Model | Dimensions | | | | Filter | | | | | No. of valves | Air supplied quantity [L/min] | Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | | inch | | Area | | Quantity | Length | | | | | |
| | A | H | A | H | $m^2$ | $ft^2$ | | mm | inch | | | kg | lb |
| BV-1009 | 600 | 1370 | 23.7 | 54.0 | 4.1 | 44 | 9 | 914 | 36 | 3 | 70 | 215 | 475 |
| -1016 | 800 | | 31.5 | | 7.2 | 77 | 16 | | | 4 | 90 | 275 | 607 |
| -1025 | 1000 | | 39.4 | | 11.3 | 121 | 25 | | | 5 | 110 | 370 | 816 |
| -1036 | 1200 | | 47.3 | | 16.2 | 174 | 36 | | | 6 | 130 | 590 | 1301 |
| -1049 | 1400 | | 55.2 | | 22.1 | 237 | 49 | | | 7 | 160 | 685 | 1511 |
| -2009 | 600 | 1930 | 23.7 | 76.0 | 6.5 | 69 | 9 | 1472 | 58 | 3 | 75 | 230 | 508 |
| -2016 | 800 | | 31.5 | | 11.6 | 124 | 16 | | | 4 | 95 | 330 | 728 |
| -2025 | 1000 | | 39.4 | | 18.2 | 195 | 25 | | | 5 | 110 | 470 | 1037 |
| -2036 | 1200 | | 47.3 | | 26.1 | 280 | 36 | | | 6 | 140 | 750 | 1654 |
| -2049 | 1400 | | 55.2 | | 35.6 | 383 | 49 | | | 7 | 170 | 900 | 1985 |

■Shape 1




■Shape 2

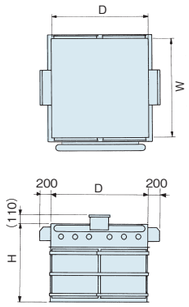



## CT

| Model | Shape | Dimensions | | | | | | | | Filter | | | | | No. of valves | Air supplied quantity [L/min] | Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | mm | | | | inch | | | | Area | | Quantity | Length | | | | | |
| | | D | H | W | L | D | H | W | L | $m^2$ | $ft^2$ | | mm | inch | | | kg | lb |
| CT-1008 | 1 | 765 | 3390 | 1065 | 1515 | 30.2 | 133.5 | 42.0 | 59.7 | 3.6 | 38 | 8 | 914 | 36 | 3 | 70 | 255 | 563 |
| -2008 | 1 | 765 | 3990 | 1065 | 1515 | 30.2 | 157.1 | 42.0 | 59.7 | 5.8 | 62 | 8 | 1472 | 58 | 3 | 75 | 315 | 695 |
| -2014 | 1 | 950 | 4220 | 1250 | 1700 | 37.5 | 166.2 | 49.3 | 67.0 | 10.2 | 109 | 14 | 1472 | 58 | 4 | 90 | 385 | 849 |
| -2018 | 1 | 1100 | 4400 | 1400 | 1850 | 43.4 | 173.3 | 55.2 | 72.9 | 13.1 | 140 | 18 | 1472 | 58 | 4 | 100 | 470 | 1037 |
| -2024 | 1 | 1250 | 4580 | 1550 | 2000 | 49.3 | 180.4 | 61.1 | 78.8 | 17.4 | 187 | 24 | 1472 | 58 | 5 | 110 | 570 | 1257 |
| -4008 | 1 | 765 | 4690 | 1065 | 1515 | 30.2 | 184.7 | 42.0 | 59.7 | 8.4 | 90 | 8 | 2133 | 84 | 3 | 85 | 370 | 816 |
| -4014 | 1 | 950 | 4920 | 1250 | 1700 | 37.5 | 193.8 | 49.3 | 67.0 | 14.7 | 158 | 14 | 2133 | 84 | 4 | 95 | 460 | 1015 |
| -4018 | 1 | 1100 | 5100 | 1400 | 1850 | 43.4 | 200.8 | 55.2 | 72.9 | 18.9 | 203 | 18 | 2133 | 84 | 4 | 110 | 565 | 1246 |
| -4024 | 1 | 1250 | 5280 | 1550 | 2000 | 49.3 | 207.9 | 61.1 | 78.8 | 25.2 | 271 | 24 | 2133 | 84 | 5 | 115 | 680 | 1500 |

| Model | Shape | Dimensions | | | | | | | | Filter | | | | | No. of valves | Air supplied quantity [L/min] | Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | mm | | | | inch | | | | Area | | Quantity | Length | | | | | |
| | | D | H | W | L | D | H | W | L | $m^2$ | $ft^2$ | | mm | inch | | | kg | lb |
| CT-2030 | 2 | 1400 | 4760 | 1700 | 2600 | 55.2 | 187.5 | 67.0 | 102.4 | 21.8 | 234 | 30 | 1472 | 58 | 6 | 125 | 720 | 1588 |
| -2038 | 2 | 1525 | 4930 | 1825 | 2725 | 60.1 | 194.1 | 71.9 | 107.3 | 27.6 | 296 | 38 | 1472 | 58 | 6 | 130 | 820 | 1809 |
| -2046 | 2 | 1700 | 5100 | 2000 | 2900 | 67.0 | 200.8 | 78.8 | 114.2 | 33.4 | 359 | 46 | 1472 | 58 | 6 | 150 | 930 | 2051 |
| -2054 | 2 | 1900 | 5330 | 2200 | 3100 | 74.9 | 209.9 | 86.7 | 122.1 | 39.2 | 421 | 54 | 1472 | 58 | 7 | 175 | 1090 | 2404 |
| -2064 | 2 | 2000 | 5460 | 2300 | 3200 | 78.8 | 215.0 | 90.6 | 126.0 | 46.5 | 500 | 64 | 1472 | 58 | 9 | 180 | 1535 | 3385 |
| -2074 | 2 | 2150 | 5590 | 2450 | 3350 | 84.7 | 220.1 | 96.5 | 131.9 | 53.7 | 577 | 74 | 1472 | 58 | 10 | 205 | 1705 | 3760 |
| -2086 | 2 | 2300 | 5750 | 2600 | 3500 | 90.6 | 226.4 | 102.4 | 137.8 | 62.4 | 671 | 86 | 1472 | 58 | 12 | 230 | 1945 | 4289 |
| -4030 | 2 | 1400 | 5460 | 1700 | 2600 | 55.2 | 215.0 | 67.0 | 102.4 | 31.6 | 340 | 30 | 2133 | 84 | 6 | 130 | 805 | 1776 |
| -4038 | 2 | 1525 | 5630 | 1825 | 2750 | 60.1 | 221.7 | 71.9 | 108.3 | 40.0 | 430 | 38 | 2133 | 84 | 6 | 140 | 985 | 2172 |
| -4046 | 2 | 1700 | 5800 | 2000 | 2900 | 67.0 | 228.4 | 78.8 | 114.2 | 48.4 | 520 | 46 | 2133 | 84 | 6 | 160 | 1110 | 2448 |
| -4054 | 2 | 1900 | 6030 | 2200 | 3100 | 74.9 | 237.5 | 86.7 | 122.1 | 56.8 | 611 | 54 | 2133 | 84 | 7 | 180 | 1270 | 2801 |
| -4064 | 2 | 2000 | 6160 | 2300 | 3200 | 78.8 | 242.6 | 90.6 | 126.0 | 67.4 | 725 | 64 | 2133 | 84 | 9 | 190 | 1790 | 3947 |
| -4074 | 2 | 2150 | 6290 | 2450 | 3350 | 84.7 | 247.7 | 96.5 | 131.9 | 77.8 | 837 | 74 | 2133 | 84 | 10 | 225 | 1980 | 4366 |
| -4086 | 2 | 2300 | 6450 | 2600 | 3500 | 90.6 | 254.0 | 102.4 | 137.8 | 90.5 | 973 | 86 | 2133 | 84 | 12 | 250 | 2250 | 4962 |

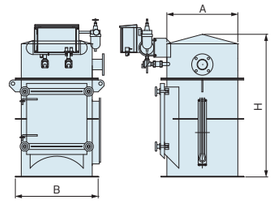
※Mass is only for the tank section.




## PPC

●Filter: Molded filter (with jet amp) ●Dust removal: Automatic pulse jet

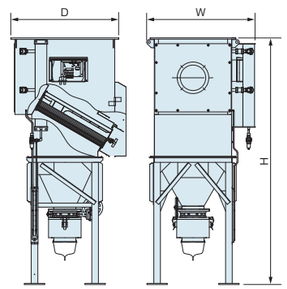
| Model | Dimensions | | | | | | Filter | | | | | No. of valves | Air supplied quantity [L/min] | Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | | | inch | | | Area | | Quantity | Length | | | | | |
| | W | D | H | W | D | H | m² | ft² | | mm | inch | | | kg | lb |
| PPC-1022 | 605 | 605 | 855 | 23.9 | 23.9 | 33.7 | 2.8 | 30 | 4 | 250 | 9.9 | 2 | 40 | 140 | 309 |
| -2022 | | | 1105 | | | 43.6 | 5.6 | 60 | | 500 | 19.7 | | | 160 | 353 |
| -3022 | | | 1355 | | | 53.4 | 8.4 | 90 | | 750 | 29.6 | | | 180 | 397 |
| -1032 | | 855 | 855 | | 33.7 | 33.7 | 4.2 | 45 | 6 | 250 | 9.9 | 3 | 55 | 170 | 375 |
| -2032 | | | 1105 | | | 43.6 | 8.4 | 90 | | 500 | 19.7 | | | 200 | 441 |
| -3032 | | | 1355 | | | 53.4 | 12.6 | 135 | | 750 | 29.6 | | | 230 | 508 |
| -1042 | | 1205 | 855 | | 47.5 | 33.7 | 5.6 | 60 | 8 | 250 | 9.9 | 4 | 75 | 220 | 486 |
| -2042 | | | 1105 | | | 43.6 | 11.2 | 120 | | 500 | 19.7 | | | 260 | 574 |
| -3042 | | | 1355 | | | 53.4 | 16.8 | 180 | | 750 | 29.6 | | | 300 | 662 |
| -1033 | 855 | 855 | 855 | 33.7 | 33.7 | 33.7 | 6.3 | 67 | 9 | 250 | 9.9 | 3 | 60 | 210 | 464 |
| -2033 | | | 1105 | | | 43.6 | 12.6 | 135 | | 500 | 19.7 | | | 240 | 530 |
| -3033 | | | 1355 | | | 53.4 | 18.9 | 203 | | 750 | 29.6 | | | 270 | 596 |
| -1043 | | 1205 | 855 | | 47.5 | 33.7 | 8.4 | 90 | 12 | 250 | 9.9 | 4 | 80 | 260 | 574 |
| -2043 | | | 1105 | | | 43.6 | 16.8 | 180 | | 500 | 19.7 | | | 300 | 662 |
| -3043 | | | 1355 | | | 53.4 | 25.2 | 271 | | 750 | 29.6 | | | 350 | 772 |
| -1053 | | 1455 | 855 | | 57.3 | 33.7 | 10.5 | 112 | 15 | 250 | 9.9 | 5 | 100 | 320 | 706 |
| -2053 | | | 1105 | | | 43.6 | 21.0 | 225 | | 500 | 19.7 | | | 370 | 816 |
| -3053 | | | 1355 | | | 53.4 | 31.5 | 338 | | 750 | 29.6 | | | 420 | 927 |
| -1063 | | 1705 | 855 | | 67.2 | 33.7 | 12.6 | 135 | 18 | 250 | 9.9 | 6 | 120 | 360 | 794 |
| -2063 | | | 1105 | | | 43.6 | 25.2 | 271 | | 500 | 19.7 | | | 420 | 927 |
| -3063 | | | 1355 | | | 53.4 | 37.8 | 406 | | 750 | 29.6 | | | 480 | 1059 |
| -1044 | 1205 | 1205 | 855 | 47.5 | 47.5 | 33.7 | 11.2 | 120 | 16 | 250 | 9.9 | 4 | 90 | 350 | 772 |
| -2044 | | | 1105 | | | 43.6 | 22.4 | 241 | | 500 | 19.7 | | | 410 | 905 |
| -3044 | | | 1355 | | | 53.4 | 33.6 | 361 | | 750 | 29.6 | | | 470 | 1037 |
| -1054 | | 1455 | 855 | | 57.3 | 33.7 | 14.0 | 150 | 20 | 250 | 9.9 | 5 | 110 | 420 | 927 |
| -2054 | | | 1105 | | | 43.6 | 28.0 | 301 | | 500 | 19.7 | | | 490 | 1081 |
| -3054 | | | 1355 | | | 53.4 | 42.0 | 451 | | 750 | 29.6 | | | 560 | 1235 |
| -1064 | | 1705 | 855 | | 67.2 | 33.7 | 16.8 | 180 | 24 | 250 | 9.9 | 6 | 130 | 480 | 1059 |
| -2064 | | | 1105 | | | 43.6 | 33.6 | 361 | | 500 | 19.7 | | | 560 | 1235 |
| -3064 | | | 1355 | | | 53.4 | 50.4 | 542 | | 750 | 29.6 | | | 640 | 1412 |
| -1045 | 1455 | 1205 | 855 | 57.3 | 47.5 | 33.7 | 14.0 | 150 | 20 | 250 | 9.9 | 4 | 95 | 420 | 927 |
| -2045 | | | 1105 | | | 43.6 | 28.0 | 301 | | 500 | 19.7 | | | 490 | 1081 |
| -3045 | | | 1355 | | | 53.4 | 42.0 | 451 | | 750 | 29.6 | | | 560 | 1235 |
| -1055 | | 1455 | 855 | | 57.3 | 33.7 | 17.5 | 188 | 25 | 250 | 9.9 | 5 | 120 | 490 | 1081 |
| -2055 | | | 1105 | | | 43.6 | 35.0 | 376 | | 500 | 19.7 | | | 570 | 1257 |
| -3055 | | | 1355 | | | 53.4 | 52.5 | 564 | | 750 | 29.6 | | | 650 | 1434 |
| -1065 | | 1705 | 855 | | 67.2 | 33.7 | 21.0 | 225 | 30 | 250 | 9.9 | 6 | 140 | 550 | 1213 |
| -2065 | | | 1105 | | | 43.6 | 42.0 | 451 | | 500 | 19.7 | | | 630 | 1390 |
| -3065 | | | 1355 | | | 53.4 | 63.0 | 677 | | 750 | 29.6 | | | 720 | 1588 |
| -1046 | 1705 | 1205 | 855 | 67.2 | 47.5 | 33.7 | 16.8 | 180 | 24 | 250 | 9.9 | 4 | 100 | 460 | 1014 |
| -2046 | | | 1105 | | | 43.6 | 33.6 | 361 | | 500 | 19.7 | | | 530 | 1169 |
| -3046 | | | 1355 | | | 53.4 | 50.4 | 542 | | 750 | 29.6 | | | 600 | 1323 |
| -1056 | | 1455 | 855 | | 57.3 | 33.7 | 21.0 | 225 | 30 | 250 | 9.9 | 5 | 125 | 530 | 1169 |
| -2056 | | | 1105 | | | 43.6 | 42.0 | 451 | | 500 | 19.7 | | | 610 | 1346 |
| -3056 | | | 1355 | | | 53.4 | 63.0 | 677 | | 750 | 29.6 | | | 690 | 1522 |
| -1066 | | 1705 | 855 | | 67.2 | 33.7 | 25.2 | 271 | 36 | 250 | 9.9 | 6 | 150 | 600 | 1323 |
| -2066 | | | 1105 | | | 43.6 | 50.4 | 542 | | 500 | 19.7 | | | 690 | 1522 |
| -3066 | | | 1355 | | | 53.4 | 75.6 | 813 | | 750 | 29.6 | | | 780 | 1720 |




## MF

●Filter: Molded filter ●Dust removal: Automatic pulse jet

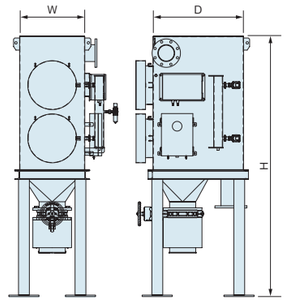
| Model | Dimensions | | | | | | Filter | | | | | No. of valves | Air supplied quantity [L/min] | Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | | | inch | | | Area | | Quantity | Length | | | | | |
| | A | B | H | A | B | H | m² | ft² | | mm | inch | | | kg | lb |
| MF-2003 | ϕ500 | ϕ600 | 800 | 19.7 | 23.7 | 31.5 | 4.5 | 48 | 3 | 500 | 19.7 | 2 | 30 | - | - |
| -2004 | ϕ600 | ϕ700 | 1205 | 23.7 | 27.6 | 47.5 | 6.0 | 64 | 4 | | | | 40 | - | - |
| -2007 | ϕ765 | ϕ865 | 1250 | 30.2 | 34.1 | 49.3 | 10.5 | 112 | 7 | | | 3 | 50 | - | - |
| -2012 | ϕ1100 | ϕ1200 | 1350 | 43.4 | 47.3 | 53.2 | 18.0 | 193 | 12 | | | 4 | 100 | - | - |




## TFP

●Filter: Molded filter (with jet amp) ●Dust removal: Automatic pulse jet ●Bag-in Bag-out specifications

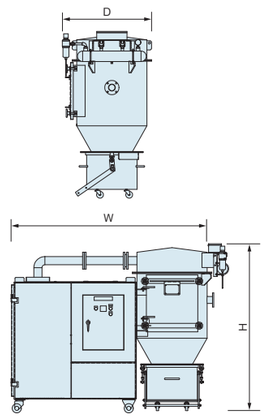
| Model | Dimensions | | | | | | Filter | | | | | No. of valves | Air supplied quantity [L/min] | Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | | | inch | | | Area | | Quantity | Length | | | | | |
| | W | D | H | W | D | H | m² | ft² | | mm | inch | | | kg | lb |
| TFP-0201 | 747 | 1130 | 2472 | 29.5 | 44.5 | 97.4 | 13.5 | 145 | 2 | 750 | 29.6 | 2 | 20 | 210 | 464 |
| -0202 | 1067 | | 2572 | 42.1 | | 101.3 | 27.0 | 290 | 4 | | | | 30 | 270 | 596 |
| -0302 | 1067 | | 2952 | 42.1 | | 116.3 | 40.5 | 435 | 6 | | | 3 | 45 | 320 | 706 |
| -0303 | 1387 | | 3222 | 54.7 | | 126.9 | 60.8 | 654 | 9 | | | | 50 | 450 | 993 |
| -0402 | 1067 | | 3332 | 42.1 | | 131.2 | 54.0 | 581 | 8 | | | 4 | 60 | 370 | 816 |
| -0403 | 1387 | | 3602 | 54.7 | | 141.9 | 81.0 | 871 | 12 | | | | 70 | 500 | 1103 |




## TFP-S

●Filter: Molded filter ●Dust removal: Automatic pulse jet ●Bag-in Bag-out specifications

| Model | Dimensions | | | | | | Filter | | | | | No. of valves | Air supplied quantity [L/min] | Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | | | inch | | | Area | | Quantity | Length | | | | | |
| | W | D | H | W | D | H | m² | ft² | | mm | inch | | | kg | lb |
| TFP-S0201 | 920 | 1034 | 2153 | 36.2 | 40.7 | 84.8 | 11.0 | 118 | 2 | 500 | 19.7 | 2 | 20 | 420 | 926 |
| -S0301 | 920 | 1034 | 2593 | 36.2 | 40.7 | 102.1 | 16.5 | 177 | 3 | | | 3 | 30 | 490 | 1081 |
| -S0202 | 1318 | 1034 | 2153 | 51.9 | 40.7 | 84.8 | 22.0 | 236 | 4 | | | 2 | 40 | 520 | 1147 |
| -S0302 | 1318 | 1034 | 2593 | 51.9 | 40.7 | 102.1 | 33.0 | 355 | 6 | | | 3 | 60 | 600 | 1323 |




## ACR-PK

●Filter: Molded filter ●Dust removal: Automatic pulse jet

| Model | Dimensions | | | | | | Airflow | | Static pressure [kPa] | Output | | Filter | | | | | No. of valves | Air supplied quantity [L /min] | Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | | | inch | | | | | | | | Area | | Quantity | Length | | | | | |
| | W | D | H | W | D | H | m³/min | cfm | | kW | HP | m² | ft² | | mm | inch | | | kg | lb |
| ACR-10PK | 2132 | 1080 | 1842 | 84.0 | 42.6 | 72.6 | 6.5 | 229 | 30.0 | 7.5 | 10 | 5.6 | 60 | 4 | 500 | 19.7 | 2 | 45 | 1200 | 2646 |
| -15PK | | | | | | | 9.0 | 317 | | 11.0 | 15 | | | | | | | | 1500 | 3308 |

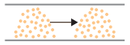
# HSF

**Continuous dense phase high pressure conveyance**

## Amano's unique high-sealing rotary feeder brings low-cost and low crush rate.

This is a compact high-pressure feed system using a high-sealing rotary feeder. The dust supply section is simple compared to systems using blow pots. This is a cyclic low-speed high-concentration transfer feed system having a transfer speed of 4 to 6 meters per second so there is almost no danger of crushing. Employing a custom helical rotor drastically reduces crushing of dust particles due to bite-in.

- Minimal crushing
- High quality material conveyance
- Compact



Plug conveyance

**Specifications**

| | |
|---|---|
| Conveyance speed | 1～15m/s |
| Conveyance quantity | ～20t/h |
| Conveyance distance | ～300m |
| Conveyance pressure | ～+300kPa |
| Air source | Compressor |

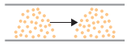
# HAF

**High pressure conveyance**

## Ideal for conveyance dust that cannot be allowed to crush and for long distance conveyance.

Plug shaped particles are pressed, moved and fed by static pressure from conveyance air feed. In the HAF system there is almost no crushing for conveying dust particles since the conveyance speed is low.

- Minimal crushing
- High quality material conveyance
- Long-distance large-volume conveyance



Plug conveyance

**Specifications**

| | |
|---|---|
| Conveyance speed | 1～15m/s |
| Conveyance quantity | ～200t/h |
| Conveyance distance | ～2000m |
| Conveyance pressure | ～+700kPa |
| Air source | Compressor |

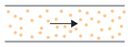
# LAF

**Low pressure conveyance**

## Ideal for short distance conveyance or conveying from 1 to multiple locations.

By using the dynamic pressure of the conveyance air, the particles are flown through the conveyance pipe at relatively low densities. The conveyance speed is much greater than that of the high-pressure conveyance system at a typical speed of 20 to 30 m/s.

- Low cost
- Multiple conveyance



Low-concentration conveyance

**Specifications**

| | |
|---|---|
| Conveyance speed | 15～40m/s |
| Conveyance quantity | ～100t/h |
| Conveyance distance | ～200m |
| Conveyance pressure | ～+100kPa |
| Air source | Turbo / Roots blower |

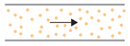
# VAF

**Low-pressure intake conveyance**

## Ideal for conveying/feeding from several locatons to one location.

By sucking both particles and air, the particles are conveyed by the air flow resulting from sub-atmospheric pressure. By using dynamic pressure of the conveyance air, the particles are lifted and transported. The conveyance air speed is typically 20 to 30 m/s. Vacuum conveyance produces cooling and drying effects on the conveyed items, and is best suited in conveying particles from narrow and deep locations.

- Low cost
- Cluster conveyance



Low-concentration conveyance

**Specifications**

| | |
|---|---|
| Conveyance speed | 15～40m/s |
| Conveyance quantity | ～100t/h |
| Conveyance distance | ～200m |
| Conveyance pressure | ～-60kPa |
| Air source | Turbo / Roots blower |

# Test plant

**Dust particle handling plant**

## At this plant, pneumatic conveying testing of dust provided by the customer is carried out.

The dust particle handling plant makes conveying tests of the target dust particles for conveying and accumulates data for designing an actual plant. Here, equipment is installed to allow dealing with dust by efficiently gathering data for handling diverse types of dust particles. The conveying distance can be measured from short distances of 39 meters to long distances of 184 meters.Here, 10 or more conveyance test patterns are executed to match the customer's application.

※Performance values might change from those shown on custom order specifications.



# EV/FV

**Suction type general-purpose dust conveying feeder**

## Installable at a reasonable cost. Compact pneumatic conveying feeder.

**Specifications**

| Model | | EV-5L | EV-10L |
|---|---|---|---|
| Suction air source | | Ejector pump | |
| Dimensions | mm | Φ405×1160 | |
| | inch | 16×45.7 | |
| Filter Quantity | | 1 | |
| Filter area | $m^2$ | 0.7 | |
| | $ft^2$ | 7.5 | |
| Dust removal | | Automatic pulse jet (At fixed interval) | |
| Compressed air consumption [$m^3$/min] | | Equivalent to 0.5 screw compressor at 3.7kW | Equivalent to 1.0 screw compressor at 7.5kW |
| Compressed air coupling port | | 15A | |
| Exhaust valve specifications | | Weight damper method | |
| Control system | | Air regulation (electrical control also okay-OPT) | |
| Suction hose diameter | mm | Φ25 | Φ38 |
| | inch | Φ1 | Φ1.5 |
| Main material | | SUS or SPHC | |
| Weight | kg | 90 | |
| | lb | 199 | |

**Specifications**

| Model | | FV-3 |
|---|---|---|
| Suction air source | | Brushless blower motor |
| Power supply | | 3-phase 200V 50/60Hz common use |
| Output | kW | 2.0 |
| | HP | 2.6 |
| Dimensions | mm | Φ405×1295 |
| | inch | 16×51 |
| Filter Quantity | | 1 |
| Filter area | $m^2$ | 0.7 |
| | $ft^2$ | 7.5 |
| Dust removal | | Automatic pulse jet (At fixed interval) |
| Compressed air consumption | | 20 L/min 0.5MPa to 0.7MPa (for pulse jet) |
| Compressed air coupling port | mm | 6A |
| | inch | 0.3A |
| Exhaust valve specifications | | Weight damper method |
| Control system | | Electrical control |
| Suction hose diameter | mm | Φ38 |
| | inch | Φ1.5 |
| Main material | | SUS or SPHC |
| Weight | kg | 80 |
| | lb | 177 |

# FPV

**Suction type general-purpose dust conveying feeder**

## Small size pneumatic conveying feeder.

No tools required for dismantling

Standard filter (Polyester)

Resin filter (Polyethylene)

**Specifications**

| Model | | | FPV-40 | FPV-40X | FPV-50 | FPV-50X | FPV-65 | FPV-65X |
|---|---|---|---|---|---|---|---|---|
| Filter box | Outer diameter (nominal) | mm | Φ356(350A) | | Φ456(450A) | | Φ558(550A) | |
| | | inch | 14(350A) | | 18(450A) | | 22(550A) | |
| | Design withstand pressure [kPa] | | –50(intake) | | | | | |
| Dust removal | Method | | Automatic pulse jet (At fixed interval) | | | | | |
| | Diaphragm valve [pcs.] | | 1 | | 2 | | 3 | |
| | Pulse jet compressed air pressure [MPa] | | Normally 0.4 to 0.5 | | | | | |
| Filter | Name | | Standard filter | Resin filter | Standard filter | Resin filter | Standard filter | Resin filter |
| | Material | | Polyester | Polyethylene | Polyester | Polyethylene | Polyester | Polyethylene |
| | Quantity | | 1 | 9 | 2 | 18 | 3 | 27 |
| | Area | $m^2$ | 1.17 | 1.07 | 2.34 | 2.13 | 3.50 | 3.20 |
| | | $ft^2$ | 12.5 | 11.5 | 25.1 | 22.9 | 37.6 | 34.4 |
| | Cleaning (water-washing) | | × | ○ | × | ○ | × | ○ |
| Section hopper | Suction port diameter (nominal) | m | 38.1 (Sanitary 1.5S ferrule) | | 50.8 (Sanitary 2.0S ferrule) | | 63.5 (Sanitary 2.5S ferrule) | |
| | | inch | 1.5 (Sanitary 1.5S ferrule) | | 2 (Sanitary 2.0S ferrule) | | 2.5 (Sanitary 2.5S ferrule) | |
| | Slope angle standard [degrees] | | 60 | | | | | |
| | Exhaust port diameter | | 4.5S(100A) | | 6.5S(150A) | | 8.5S(200A) | |
| | | | ISO standard ferrule | | | | | |
| Electrical components | Standard (pilot valve box) | | Pulse jet board & pilot valve 200V/100V selectable specifications | | | | | |
| Unit material | Material | | SUS304 | | | | | |
| | Surface treatment | | Inner/outer surface buffing (※Inner/outer surface #400) | | | | | |
| Weight | | kg | Approximately 55 | Approximately 55 | Approximately 70 | Approximately 75 | Approximately 85 | Approximately 95 |
| | | lb | Approximately 122 | Approximately 122 | Approximately 155 | Approximately 166 | Approximately 188 | Approximately 210 |

# AGR

**Suction type general-purpose dust conveying feeder**

## Water-washable & modular design.

No tools required for dismantling

- Space saving
- Small airflow
- Minimal crushing
- No power source required

**Specifications**

| Model | | AGR-130 | AGR-150 | AGR-200M | AGR-200 |
|---|---|---|---|---|---|
| Shell diameter | mm | 130 | 150 | 200 | 200 |
| | inch | 5.2 | 5.9 | 7.9 | 7.9 |
| Overall height | mm | 859 | 972 | 1050 | 1166 |
| | inch | 33.9 | 38.3 | 41.4 | 46.0 |
| 1batch quantity | L | 3 | 4.2 | 8 | 12 |
| | U.S.gallon | 0.8 | 1.1 | 2.1 | 3.1 |
| Conveying capability [L/h] | | 30～100 | 100～300 | 300～700 | 500～1200 |
| Filter Quantity | | 1 | | | |
| Compressed air consumption at0.6MPa [L/min] | | 100-500 | | | |
| Material of main unit | | SUS304/SUS316L | | | |
| Filter material | | PTFE/SUS316L | | | |
| Weight | kg | 32 | 50 | – | 55 |
| | lb | 71 | 111 | – | 122 |

# Filter for Compact Dust Collectors

Main filter is listed. Others are also available. The listed product names and commercial names are each trademarks or registered trademarks of their companies.

| | | | | |
|---|---|---|---|---|
| Name | Standard filter (Polyester Spunbond) | | | |
| Material | Polyester | | | |
| Surface treatment | – | | | |
| Corresponding models | PiF | | | |
| Application | General dried particles (particle diameter about 10μm) | | | |
| Features | For dust having a particle diameter of about 10μm. | | | |
| | Collecting efficiency | Heat resistant temperature (F) | Dust removal | Noncombustibility |
| | ○ | normal temperature 40℃ (104˚) | Pulse jet | × |

| | | | | |
|---|---|---|---|---|
| Name | Canvas filter | | | |
| Material | Cotton | | | |
| Surface treatment | – | | | |
| Corresponding models | VNA | | | |
| Application | General dried particles (particle diameter about 10μm) | | | |
| Features | For dust having a particle diameter of about 10μm. | | | |
| | Collecting efficiency | Heat resistant temperature (F) | Dust removal | Noncombustibility |
| | ○ | normal temperature 40℃ (104˚) | Vibration | × |

| | | | | |
|---|---|---|---|---|
| Name | Anti-electrostatic filter | | | |
| Material | Polyester | | | |
| Surface treatment | Stainless evaporation | | | |
| Corresponding models | PiF-D/SD | | | |
| Application | Electrostatic characteristic dust (particle diameter about 10μm) | | | |
| Features | Specifications give high charge prevention effect and make cause of dust explosions unlikely to occur. | | | |
| | Collecting efficiency | Heat resistant temperature (F) | Dust removal | Noncombustibility |
| | ○ | normal temperature 40℃ (104˚) | Pulse jet | × |

| | | | | |
|---|---|---|---|---|
| Name | Canvas Finefil filter | | | |
| Material | Cotton + fluororesin porous thin film | | | |
| Surface treatment | Fluororesin porous thin film laminate processing | | | |
| Corresponding models | VNA | | | |
| Application | Dried fine particles (particle diameter 10μm or less) | | | |
| Features | For dust having a particle diameter of about 10μm or less. | | | |
| | Collecting efficiency | Heat resistant temperature (F) | Dust removal | Noncombustibility |
| | ◎ | normal temperature 40℃ (104˚) | Vibration | × |

| | | | | |
|---|---|---|---|---|
| Name | OW filter | | | |
| Material | Polyester+Acrylic resin | | | |
| Surface treatment | – | | | |
| Corresponding models | PiF | | | |
| Application | Dust including watery oil | | | |
| Features | Maintains breathability even in dust containing oily and wet partcles | | | |
| | Collecting efficiency | Heat resistant temperature (F) | Dust removal | Noncombustibility |
| | △ | normal temperature 40℃ (104˚) | Pulse jet | × |

| | | | | |
|---|---|---|---|---|
| Name | Anti-electrostatic filter | | | |
| Material | Polyester | | | |
| Surface treatment | Metal wire net weaving | | | |
| Corresponding models | VNA-SDN/DN | | | |
| Application | electrification characteristic dust (particle diameter about 10μm) | | | |
| Features | Specifications give high charge prevention effect and make cause of dust explosion unlikely to occur. | | | |
| | Collecting efficiency | Heat resistant temperature (F) | Dust removal | Noncombustibility |
| | ○ | normal temperature 40℃ (104˚) | Vibration | × |

| | | | | |
|---|---|---|---|---|
| Name | Resin filter | | | |
| Material | High molecular weight polyethylene | | | |
| Surface treatment | Polyethylene sintering | | | |
| Corresponding models | IX・IXR・FPV・FP-N・FPV-2S | | | |
| Application | Toner fine powder (particle size 10μm or less) | | | |
| Features | For fine powders such as toner.<br>Water-washable | | | |
| | Collecting efficiency | Heat resistant temperature (F) | Dust removal | Noncombustibility |
| | ◎ | normal temperature 40℃ (104˚) | Pulse jet | × |

| | | | | |
|---|---|---|---|---|
| Name | Standard filter (Polyester Spunbond) | | | |
| Material | Polyester | | | |
| Surface treatment | – | | | |
| Corresponding models | FCN・Mi・PiH | | | |
| Application | General dried particles (particle diameter about 10μm) | | | |
| Features | For dust having a particle diameter of about 10μm. | | | |
| | Collecting efficiency | Heat resistant temperature (F) | Dust removal | Noncombustibility |
| | ○ | normal temperature 40℃ (104˚) | Pulse jet | × |

| | | | | |
|---|---|---|---|---|
| Name | Electret filter | | | |
| Material | Polyester+polyethlene+polypropylene | | | |
| Surface treatment | – | | | |
| Corresponding models | VF-5HG・VF-5HN | | | |
| Application | Fumes adhering during laser marking | | | |
| Features | Due to erect fibers on inner surface is not prone to clogging even from adhering fumes, also efficiently traps high percentage of tiny attached fumes by static electricity. | | | |
| | Collecting efficiency | Heat resistant temperature (F) | Dust removal | Noncombustibility |
| | ◎ | normal temperature 40℃ (104˚) | None | × |

| | | | | |
|---|---|---|---|---|
| Name | Finefil filter | | | |
| Material | Polyester | | | |
| Surface treatment | Fluororesin porous thin film laminate processing | | | |
| Corresponding models | FCN・Mi・PiH | | | |
| Application | Dried fine particles (particle diameter 10μm or less) | | | |
| Features | For dust having a particle diameter of about 10μm or less. | | | |
| | Collecting efficiency | Heat resistant temperature (F) | Dust removal | Noncombustibility |
| | ◎ | normal temperature 40℃ (104˚) | Pulse jet | × |

| | | | | |
|---|---|---|---|---|
| Name | Nanofiber filter | | | |
| Material | PET blend cellulose | | | |
| Surface treatment | Nanofiber film laminate | | | |
| Corresponding models | FD-10 | | | |
| Application | Dried fine particles (particle diameter 10μm or less) and fumes | | | |
| Features | For dried fine particles (particle diameter 10μm or less)<br>Flame retardance | | | |
| | Collecting efficiency | Heat resistant temperature (F) | Dust removal | Noncombustibility |
| | ◎ | normal temperature 40℃ (104˚) | Vibration | ○ |

| | | | | |
|---|---|---|---|---|
| Name | Anti-electrostatic filter | | | |
| Material | Polyester | | | |
| Surface treatment | Stainless evaporation | | | |
| Corresponding models | PiE-SDN/DN | | | |
| Application | Electrostatic characteristic dust (particle diameter about 10μm) | | | |
| Features | Specifications give high charge prevention effect and make cause of dust explosions unlikely to occur. | | | |
| | Collecting efficiency | Heat resistant temperature (F) | Dust removal | Noncombustibility |
| | ○ | normal temperature 40℃ (104˚) | Pulse jet | × |

# Filter for Systematic Pulsejet Dust Collectors

We select and design filter for dust collectors to match the customer's application.
The listed product names and commercial names are each trademarks or registered trademarks of their companies.

| | | | | | |
|---|---|---|---|---|---|
| Name | Tetoron felt | | | | |
| Material | Polyester | | | | |
| Surface treatment | Singed | | | | |
| Corresponding models | WRT・BV・CT | | | | |
| Application | General dried particles (particle diameter about 10μm) | | | | |
| Features | General dried particles (particle diameter about 10μm)<br>Standard filter. Most widely used item. | | | | |
| | Collecting efficiency | Heat resistant temperature (F) | Acid-resistant | Alkali-proof | Noncombustibility |
| | ○ | normal temperature 120℃ (248˚) | △ | △ | × |

| | | | | | |
|---|---|---|---|---|---|
| Name | PTFE felt | | | | |
| Material | Toyofuron (fluororesin fiber) | | | | |
| Surface treatment | Special processing | | | | |
| Corresponding models | WRT・BV・CT・HGD | | | | |
| Application | High-temperature dust collection (particle size about 10μm) | | | | |
| Features | This filter is for high-temperature dust collection. This filter is preferably detachable and allows air to pass. Besides it has extremely good chemical resistance. | | | | |
| | Collecting efficiency | Heat resistant temperature (F) | Acid-resistant | Alkali-proof | Noncombustibility |
| | ○ | normal temperature 260℃ (500˚) | ◎ | ◎ | ○ |

| | | | | | |
|---|---|---|---|---|---|
| Name | Finefil tetoron felt | | | | |
| Material | Polyester | | | | |
| Surface treatment | Fluororesin porous thin film laminate processing | | | | |
| Corresponding models | WRT・BV・CT | | | | |
| Application | General dried particles (particle diameter about 10μm) | | | | |
| Features | For dried fine particles (particle diameter 10μm or less)<br>Is preferably detachable. | | | | |
| | Collecting efficiency | Heat resistant temperature (F) | Acid-resistant | Alkali-proof | Noncombustibility |
| | ◎ | normal temperature 120℃ (248˚) | △ | △ | × |

| | | | | | |
|---|---|---|---|---|---|
| Name | P84 | | | | |
| Material | Polyimide | | | | |
| Surface treatment | Singed | | | | |
| Corresponding models | WRT・BV・CT・HGD | | | | |
| Application | High-temperature dust collection (particle size about 10μm) | | | | |
| Features | This filter is for high-temperature dust collection. | | | | |
| | Collecting efficiency | Heat resistant temperature (F) | Acid-resistant | Alkali-proof | Noncombustibility |
| | ○ | normal temperature 240℃ (464˚) | ○ | ○ | × |

| | | | | | |
|---|---|---|---|---|---|
| Name | Tetoron felt impregnated with teflon | | | | |
| Material | Polyester+impregnated fluororesin | | | | |
| Surface treatment | Singed | | | | |
| Corresponding models | WRT・BV・CT | | | | |
| Application | Dust containing moisture (particle diameter about 10μm) | | | | |
| Features | This filter has water repellency.<br>Maintains breathability even in dust containing watery oil. | | | | |
| | Collecting efficiency | Heat resistant temperature (F) | Acid-resistant | Alkali-proof | Noncombustibility |
| | ○ | normal temperature 120℃ (248˚) | △ | △ | × |

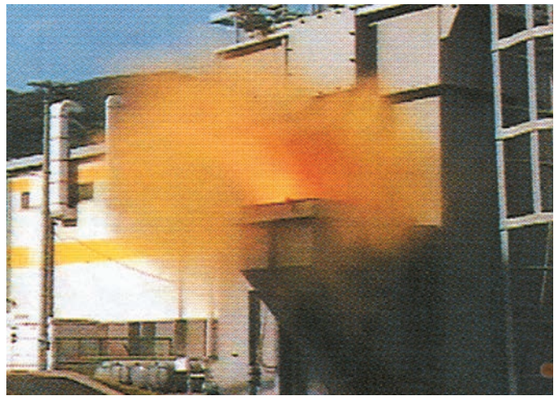
| | | | | | |
|---|---|---|---|---|---|
| Name | Tefaire | | | | |
| Material | Fluororesin fiber + glass fiber | | | | |
| Surface treatment | Special processing | | | | |
| Corresponding models | WRT・BV・CT・HGD | | | | |
| Application | High-temperature dust collection (particle size about 10μm) | | | | |
| Features | This filter is for high-temperature dust collection.<br>Extremely good trapping performance and chemical resistance. | | | | |
| | Collecting efficiency | Heat resistant temperature (F) | Acid-resistant | Alkali-proof | Noncombustibility |
| | ◎ | normal temperature 230℃ (446˚) | ◎ | ◎ | ○ |

| | | | | | |
|---|---|---|---|---|---|
| Name | Pyrene felt | | | | |
| Material | Polypropylene | | | | |
| Surface treatment | Singed | | | | |
| Corresponding models | WRT・BV・CT | | | | |
| Application | Acidic, alkaline dust (particle size about 10μm) | | | | |
| Features | Excellent chemical resistance | | | | |
| | Collecting efficiency | Heat resistant temperature (F) | Acid-resistant | Alkali-proof | Noncombustibility |
| | ○ | normal temperature 85℃ (185˚) | ○ | ○ | × |

| | | | | | |
|---|---|---|---|---|---|
| Name | Heat-resistant nylon felt | | | | |
| Material | Aramid | | | | |
| Surface treatment | Singed | | | | |
| Corresponding models | WRT・BV・CT・HGD | | | | |
| Application | High-temperature dust collection (particle size about 10μm) | | | | |
| Features | This filter is for high-temperature dust collection. | | | | |
| | Collecting efficiency | Heat resistant temperature (F) | Acid-resistant | Alkali-proof | Noncombustibility |
| | ○ | normal temperature 170℃ (338˚) | △ | ○ | × |

| | | | | | |
|---|---|---|---|---|---|
| Name | PPS felt | | | | |
| Material | Polyphenylene sulfide | | | | |
| Surface treatment | Singed | | | | |
| Corresponding models | WRT・BV・CT・HGD | | | | |
| Application | High-temperature dust collection (particle size about 10μm) | | | | |
| Features | This filter is for high-temperature dust collection. | | | | |
| | Collecting efficiency | Heat resistant temperature (F) | Acid-resistant | Alkali-proof | Noncombustibility |
| | ○ | normal temperature 160℃ (320˚) | ○ | ○ | △ |

# Do you know that...? Hazardous dust collector explosions



Dust explosion. This hazard is not as well recognized as the threat from inflammable gas and fluids. However, compared to the same volume of gas the mass is considerably larger so the explosion is huge. Each dust or powder explosion that occurs leaves behind a tremendous amount of damage and tragedy. Amono does continual R&D work into preventing these dust and powder explosions.

## Three conditions leading to dust explosions

**Oxygen**

**Dust in concentration higher than the explosion lower limit threshold**

**Minimum ignition energy**

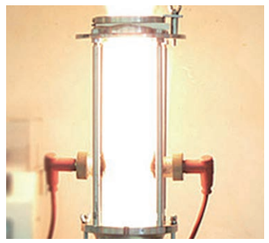
Dust explosions occur when the 3 conditions of "oxygen", "Dust concentration higher than explosion threshold", and "minimum ignition energy" are all present. If even just 1 of these conditions can be eliminated then dust explosions can be prevented. So the crucial point in preventing explosions is eliminating oxygen or sources of sparks.

### ■ Dust and powders that might cause explosions

- Magnesium
- Aluminum
- Aluminum light alloys
- Iron powder(non-oxidized)
- Epoxy resin
- Cornstarch
- Titanium
- Toner

Other inflammable powders

## Consult Amano for dust explosion countermeasures



In client consultations for dust explosion pressure diffusion type dust collectors we always make a test analysis of the following items…

- **Explosion index** Kst value
- **Maximum explosion pressure** Pmax
- **Minimum ignition energy** MIE

Test analysis ※To propose the best dust collector equipment.

※Tests fee will be charged Environmental Technology Co., Ltd. does the testing.

■ Dust explosion test overview (video)

http://www.eiseiken.co.jp/service/funjin/index.html





# Guide to selecting hood types & required air blow quantity

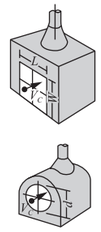
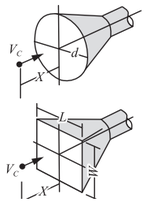
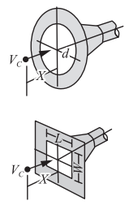
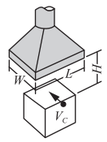
## ■ Capture velocity determined by dust ordinances

| Hood models | | Capture velocity (m/s) |
|---|---|---|
| Enclosure type hood | | 0.7 |
| External attached hood | Side intake type | 1.0 |
| | Downward intake type | 1.0 |
| | Upward intake type | 1.2 |

※The capture velocity for the designated dust emission source may differ sometimes from the above content.

| Hood installation methods | Capture velocity (m/s) |
|---|---|
| Method for enclosing entire device containing rotor | 0.5 |
| Method for covering opening in hood in a direction where dust caused by rotation of rotor might fly outwards. | 5.0 |
| Method for enclosing just the rotor | 5.0 |

Remarks
1. The capture velocity used in this table is called the capture velocity when all hoods on all simultaneously used local exhaust ventilation devices are open.
2. The capture velocity used in this table is called the minimum wind velocity through the open side of the hood when the rotor is stopped.

| Hood models | Sample drawing | Airflow ($m^3$/min) |
|---|---|---|
| ① Enclosure type |  Opening surface area : $A(m^2)=L(m) \times W(m)$ <br> $A=\frac{\pi}{4}\cdot d^2$ | $Q = 60 \cdot A \cdot V_O$ <br> $= 60 \cdot A \cdot V_C \cdot k$ <br> $V_O$ : Average wind velocity at open side[$m/s$] <br> $V_C$ : Capture velocity[$m/s$] <br> $k$ : Correction coefficient for irregular wind velocity |
| ② Externally attached type <br> ※Circular or rectangular hood mounted in free space |  $A=\frac{\pi}{4}\cdot d^2$ Distance : $X(m)$ <br> $A = L \cdot W$ Aspect ratio : $W/L > 0.2$ | $Q = 60 \cdot V_C \cdot (10X^2 + A) \cdot k$ <br> $k$ : Correction coefficient for disturbance flow |
| ③ Externally attached type <br> ※Circular or rectangular hood with flange mounted in free space |  $A=\frac{\pi}{4}\cdot d^2$ <br> $A = L \cdot W$ <br> $W/L>0.2$ | $Q = 60 \cdot 0.75 \cdot V_C \cdot (10X^2 + A) \cdot k$ <br> $k$ : Correction coefficient for disturbance flow |
| ④ Externally attached type <br> ※Circular or rectangular canopy type hood |  Canopy perimeter : $P = 2(L + W)$ <br> Height coefficient : $H/L \leqq 0.3$ | $Q = 60 \cdot 1.4 \cdot P \cdot H \cdot V_C \cdot k$ <br> $k$ : Correction coefficient for disturbance flow |

### ■ Correction coefficient

| Opening area | | Correction coefficient $k$ | |
|---|---|---|---|
| $m^2$ | $ft^2$ | Enclosure type | Externally attached type |
| ~0.2 | ~2 | 1.1 | 1.2 |
| 0.3~0.5 | 3~5 | 1.2 | 1.3 |
| 0.6~1.0 | 6~10 | 1.3 | 1.4 |
| 1.1~2.0 | 11~21 | 1.3 | 1.5 |
| 2.1~3.0 | 22~32 | 1.4 | 1.5 |
| 3.1~ | 33~ | 1.5 | 1.5 |

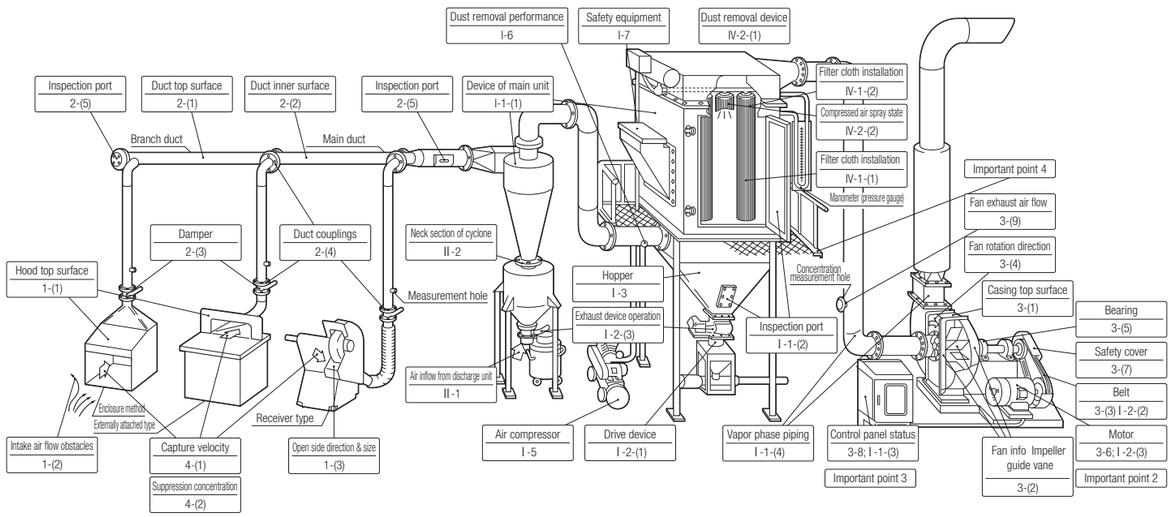
※Correction coefficient $k$ is a given value depending an the situation.

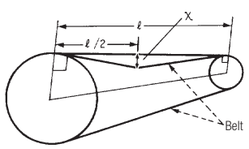
# Exhaust ventilation (dust removal) device periodic self-inspection guidelines

**Autonomous inspection guidelines (Public bulletin No. 5 No. 6) based on Article 45 item 3 of the labor safety health law.**

Daily inspections provide important data for pinpointing causes of equipment breakdowns, the periodic inspection table (6-month as general guide) is vital data for maintaining the equipment service life so be sure to do the daily self-inspections according to schedule.

**For local exhaust (dust removal) devices, the periodic self-inspections and their records shall be filed for a period of 3 years.**




Note 1 Belt slack amount (×)0.01L<×<0.02L
Note 2 Range of electric motor surface temperature and peripheral (coolant) temperature.
Inspect fan after operating for 1 hour.

## 1.Hood・2.Duct・4. intake-exhaust performance

| Item | | Inspection item | Inspection method and tools | Judgement criteria |
|---|---|---|---|---|
| Hood and intake-exhaust performance | 1-（1） | Check for any wear, corrosion or deformation | Visual, touch | Shall have no abnormalities that lower intake air capacity. |
| | 1-（2） | Intake status (any impediments) | Visual, smoke tester | Shall completely suction in the air stream. |
| | 1-（3） | Receiver type opening side direction & size | Visual | Shall be no dispersal to outside the hood. |
| | 4-（1） | Capture velocity (at designated position) | Wind gauge | Shall be specified value or higher. |
| | 4-（2） | Suppresion concentration (at designated position) | Shall conform to work environment measurement criteria | Shall not exceed the specified value. |
| Duct | 2-（1） | Check for any wear, corrosion or deformation on outer surface | Visual | Shall be no air leaks, and no increased resistance |
| | 2-（2） | Check for any breakage and dust accumulation on inner surfaces | Ultrasonic thickness gauge, manometer, stethoscope to check for surface impacts | Shall be no abnormalities due to wear, corrosion, or depositions.<br>● Shall be no drastic difference versus design plate thickness<br>● Shall be no drastic difference in design value for static pressure of duct |
| Damper | 2-（3） | Adjustment & clamped state of air flow adjuster valve opening<br>Cutoff operation of selector valve, etc. | Visual, smoke tester | Shall be in a state capable of maintaining performance<br>Shall operate correctly with light force. |
| Coupling section | 2-（4） | Check for any breakage, missing items, loosenes in coupling section | Visual, auditory, smoke tester, manometer (pressure gauge) | Shall have no air leakage and no inflow.<br>● Shall be no drastic difference in design value for static pressure of duct |
| Inspection port | 2-（5） | Inspection window open/close state | Smoke tester | Opening and closing shall be smooth with no air leaks. |
| Safety | Important point 4 | Safety measures for inspection scaffold and passage away. | Visual, safety & health regulations | Shall be no corrosion, breakage or looseness. |



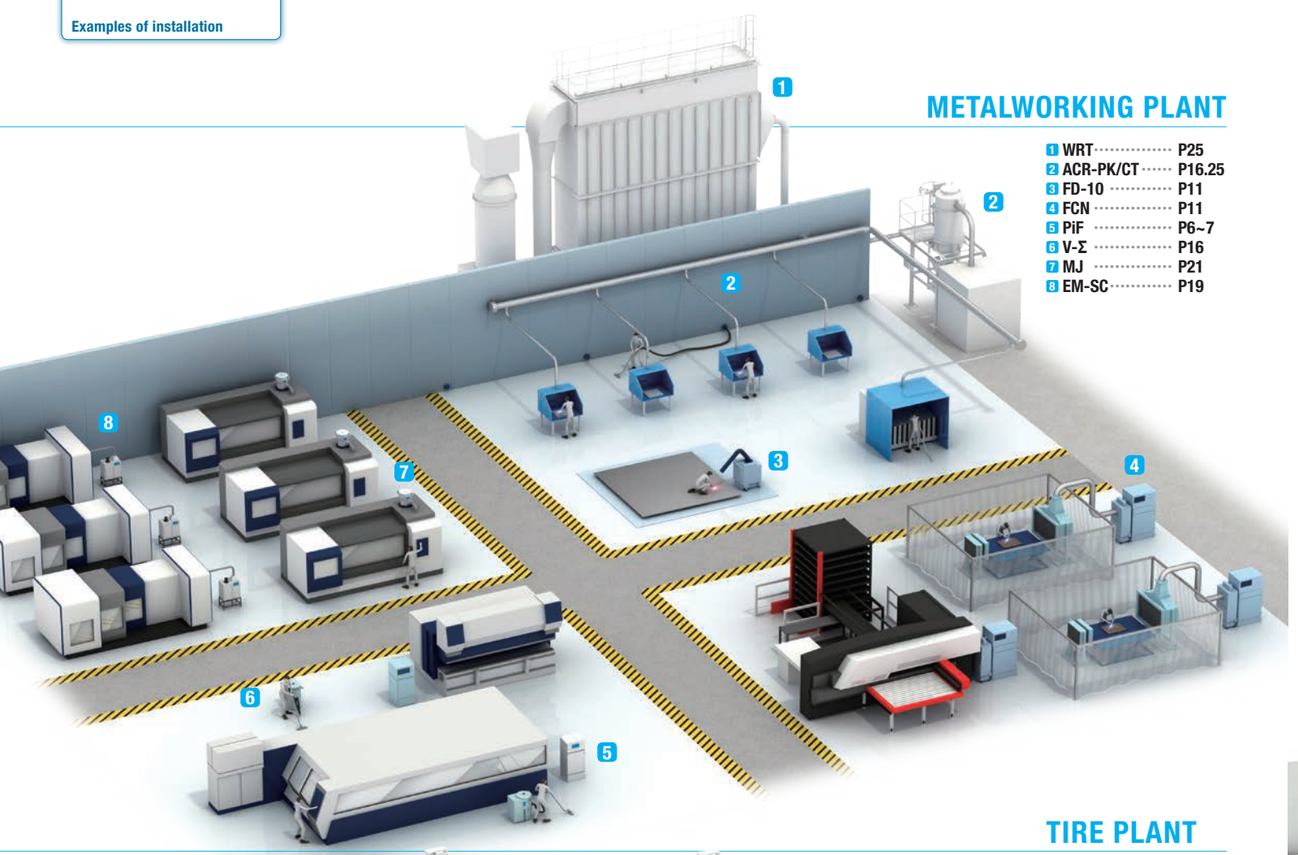
## 3. Fan and electric motor

| Item | | Inspection item | Inspection method and tools | Judgement criteria |
|---|---|---|---|---|
| Fan | 3-（1） | Casing outer surface wear-corrosion and deformation | Visual | Shall be no abnormalities to impair fan functions. |
| | 3-（2） | Check for any wear, corrosion, deformation dust adhering on the casing inner surface & impeller and guide vane. | Visual, thickness gauge, scraper | Shall be no abnormalities to impair fan functions. |
| Belt | 3-（3） | Check for any belt wear/damage, amount of droop, pulley wear, eccentricity, rpm (when there is insufficient intake exhaust performance) | Visual, touch, scale, deflection gauge, tachometer | Shall be no breakage, eccentricity, or looseness.(See Note 1)<br>Shall be specified RPM. |
| Rotation direction | 3-（4） | Check direction (when intake exhaust performance is inadequate) | Visual | Shall be specified rotation direction |
| Fan bearing | 3-（5） | Abnormal bearing sounds, temperature, oil and grease oil quantity and state of impurities | Auditory, touch, surface temperature, visual | Shall be no abnormal sounds, difference versus ambient temperate shall be 40℃(104℉) or less at a surface temperature of 70℃(158℉). |
| Motor | 3-（6） | Status of winding and case, winding and ground terminal for insulating resistor and surface termperature | Insulation resistor tester, surface temperature meter | Shall be specified value or more.<br>(See Note 2 for state of change in surface temperature) |
| Safety cover | 3-（7） | State of safety covers such as for belts. | Visual, touch | Shall be no wear deformation and no looseness in installation section. |
| Control panel | 3-（8） | Display lamp (display cover) name plate broken/missing, looseness in terminals such as causing operating defects in meters, check for discoloration, dust accumulation status | Visual, tester, clamp-meter | Shall be no breakage or missing items and no operating defects.<br>Shall be no accumulated dust adhering |
| Fan exhaust air flow | 3-（9） | Measure the air flow distribution within duct on inlet or outlet port, and calculate the exhaust flow quantity (when intake exhaust performance is low) | Air flow gauge, Manometer | Shall be required air flow or greater to meetjudgment criteria for intake/exhaust performance. |
| Safety | Important point 2,3 | Safety measures for machine and electrical inspections | Safety & health regulations | Shall have hazard prevention measures installed. |

## Dust removal device (Air cleaning device)

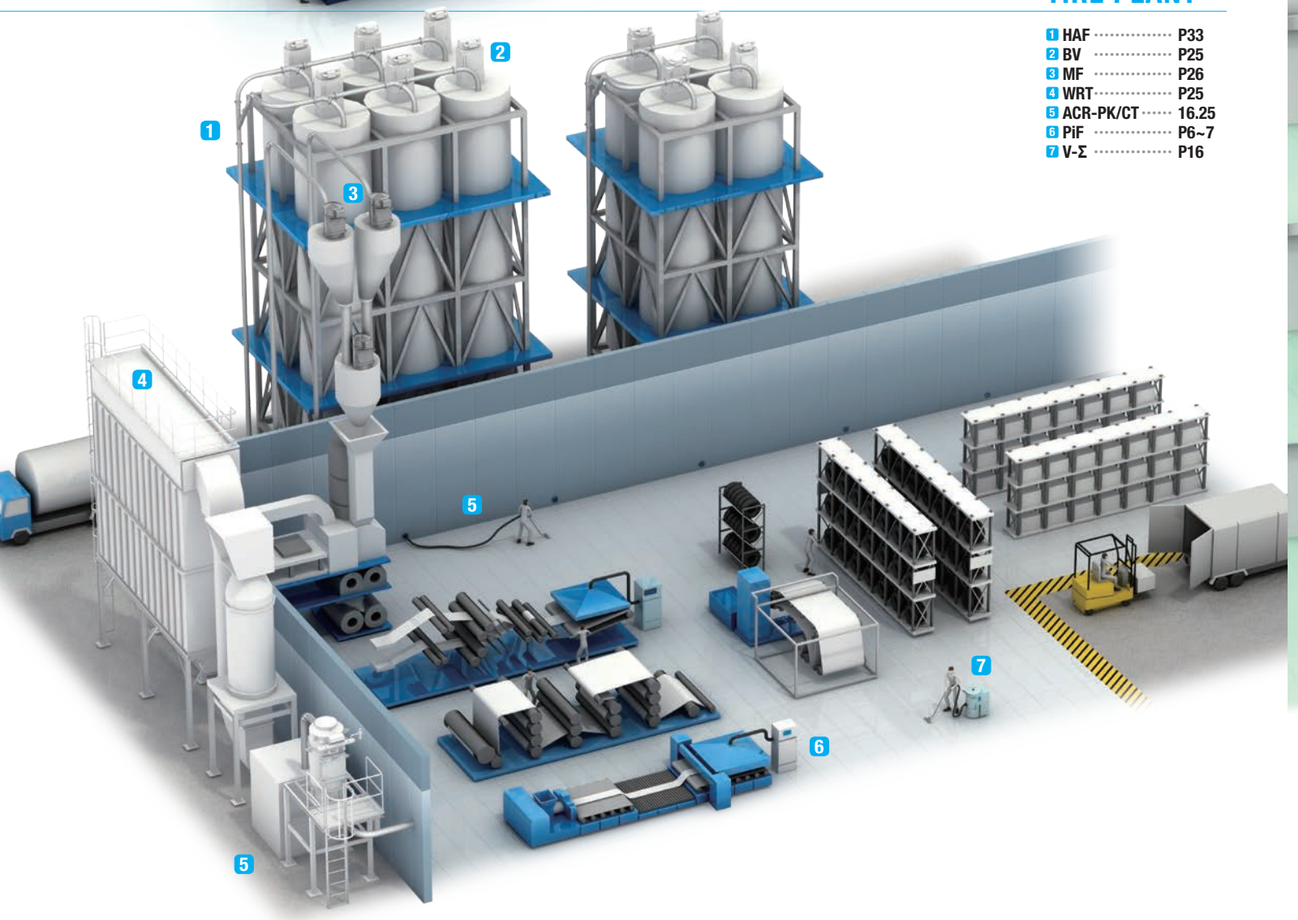
| Item | | | Inspection item | Inspection method and tools | Judgement criteria |
|---|---|---|---|---|---|
| Dust collector | Device main unit section (including coupling duct) | I-1-（1） | Outer surface wear, corrosion, breakage, accumulated dust status | Visual (inspection door or coupling), stethoscope to check for surface impacts, ultrasonic thickness gauge, manometer, air flow meter | There shall be no abnormalities (breakage, looseness, dust, etc.) that lower the performance of the dust collector equipment. |
| | Inspection port | I-1-（2） | Inspection door open/close state | Touch tasks | Shall open/close smoothly and seal securely. |
| | Vapor phase piping | I-1-（4） | For the damper: check status of other bypass valves and flexible joints the same as 2-(3) | Visual, auditory | Shall operate smoothly and shall be no abnormalities (breakage, air leakage and dust accumulation, etc.) that lower performance |
| | Belt etc. | I-2-（2） | For the belt and so on: Check status of lubrication and dust adhering to other chains the same as 3-(3) | Visual | Shall be no abnormalities from dust adhering & no lack of oil. |
| | Hopper, exhaust damper, rotary valve, etc. | I-3 | Status of external and inner sections (inspection door or impact noises)<br>Exhaust status and operation of exhaust equipment | Visual, auditory, listen for surface impact | Shall be no dust leakage or abnormalities due to dust accumulation.<br>Shall be no drop in smooth discharge function, operating defects, abnormal sounds, and abnormal vibration. |
| | Air compressor | I-5 | Investigate pressure and check for abnormalities in meters<br>Check for drain within air receiver | Visual | Pressure shall be in range of design values, and drainage shall be minimal. |
| | Dust removal performance | I-6 | Measure the concentration in the upper and lower flow sections of main unit and find the dust removal efficiency. | Method specified in JIS-Z-8808, etc. | Design values shall be within the specified range. |
| | Safety equipment | I-7 | Check for defects in operation of pressure dispersion vent, fire damper, interlock release valve, etc. | Touch tasks, visual | Shall operation smoothly and satisfactorily. |
| Cyclone type | Cyclone | II-1 | Check status of air inflow at dust exhaust unit of intake type cyclone | Visual, smoke tester | Shall be no intake of smoke or dust. |
| | | II-2 | Check dust accumulation on neck section and breakage/wear status | Listen for impacts, ultrasonic thickness gauge | Shall be design thickness or higher with no abnormal deposits/accumulations. |
| Filtering method | Filter material | IV-1-（1） | Measure the before and after pressure differential and check for any clogs, breakage, deterioration, and dampness | Visual, touch, manometer (pressure gauge) | Shall be no abnormalities that lower filter performance, pressure differential shal be within design value range. |
| | Filter material installation | IV-1-（2） | Check installation status and breakage in clamping parts of omissions/uneven clamping | Visual, touch | Shall be securely tightened and in a suitable state with nothing loose or missing or drooping. |
| | Shakedown unit | IV-2-（1） | Check status of reverse flow fan〔Same as 3-(9)〕for wear, corrosion, deformation, and abnormal vibration during operation & abnormal sounds | Visual, auditory | Shall operate smoothly and shall be no abnormalities breakage, abnormal vibrations or sounds that lower dust removal function. |
| | Compressed air spray device | IV-2-（2） | Check operation spray sounds of pilot and diaphragm valve & for water oil during compressed air, air leaks during non-spray | Auditory, check paper leakage | Shall have normal spray sounds and no air leakage sounds, and no paper leakage in air from spray nozzle. |
| Safety | | Important point 4 | Safety measures for inspection scaffold and passage away. | Visual, touch | Shall be no corrosion, breakage or looseness. |

## METALWORKING PLANT

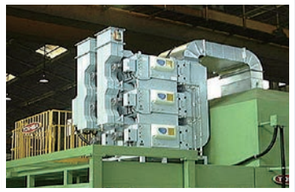


1 WRT ····· P25
2 ACR-PK/CT ····· P16.25
3 FD-10 ····· P11
4 FCN ····· P11
5 PiF ····· P6~7
6 V-Σ ····· P16
7 MJ ····· P21
8 EM-SC ····· P19

## TIRE PLANT



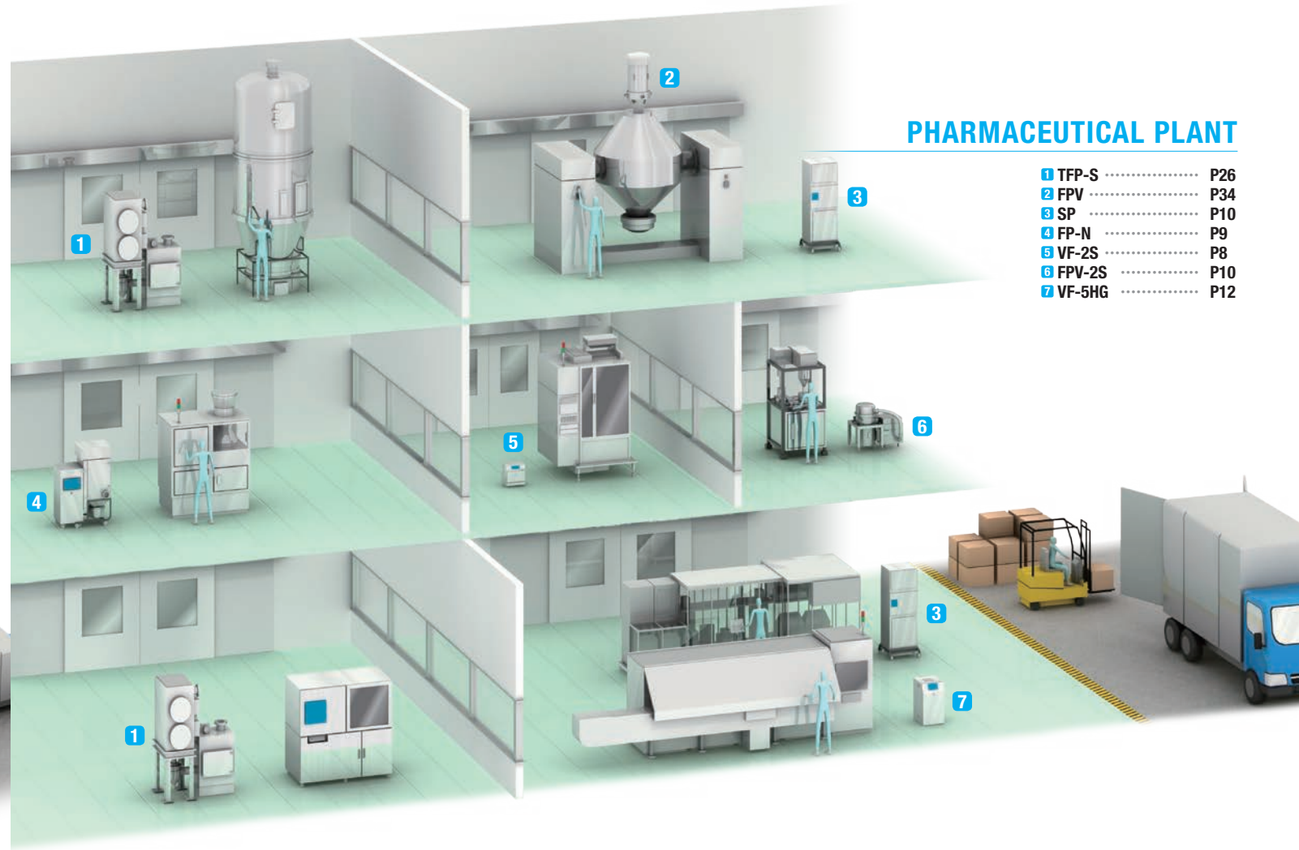
1 HAF ····· P33
2 BV ····· P25
3 MF ····· P26
4 WRT ····· P25
5 ACR-PK/CT ····· 16.25
6 PiF ····· P6~7
7 V-Σ ····· P16



## Amano environmental products

Our dust collectors, vacuum cleaners, mist collectors, pneumatic conveying systems are used in all sections of production plants. We design and provide ideal systems that meet customer needs and applications.

## PHARMACEUTICAL PLANT



1 TFP-S ····· P26
2 FPV ····· P34
3 SP ····· P10
4 FP-N ····· P9
5 VF-2S ····· P8
6 FPV-2S ····· P10
7 VF-5HG ····· P12

We also have a number of overseas delivery records. Feel free to consult us whenever you like.

■ Overseas local subsidiaries
http://www.amano.co.jp/corp/associated_kaigai.html

# To Ensure Safe Operation

## Standard Dust Collectors (VNA,PiF,VF-5N,IS-15,Mi,IP, IX,IB,VF-2S,SP,FP-N,FPV-2S and Large-scale Dust Collectors)

- To ensure proper usage of this product please read the instruction manual carefully before using.
- Standard model dust collectors are for collecting dust/powder that is not likely to cause fires or dust explosions.
- Do not suction the following materials:
  - · Explosive materials .....magnesium, aluminum, titanium, zinc, epoxies, flour, etc.
  - · Flammable materials.....gasoline, thinner, benzene, kerosene, paint, etc.
  - · Sparks .....sparks, or dust that contains sparks
  - · Fire remains .....cigarette stubs, ashes, etc.
  - · Others.....water, oil, liquid chemicals, toxic dust such as asbestos, etc.
- In case of suctioning dust including sparks produced by polishing or cutting work, Pre-dust box is required. Consult with Amano branch office to select the appropriate model.
- This machine is not an explosion-proof type. Do not install the machine at hazardous area specified by laws.
- Do not operate the machine in areas exposed to mist, fumes or gases that are explosive or corrosive, and in or near place where explosive flammable dust scatters.
- Please comply with any legal regulations that are established for installation.
- Keep the operating ambient temperature between 0 and 40°C(32 and 104°F).
- Be sure to ground the machine to protect against electric shock.
- Be sure to use pipes with the appropriate diameter and make them as short as possible according to dust collection conditions so that dust will not accumulate in them.
- When using an antistatic filter, use a steel bucket.
- Dispose of collected dust daily. Do not allow dust to accumulate in the bucket or hopper.
- Please perform daily and periodical maintenance work in accordance with instructions described in the operation manual. Please comply with regulations stipulated by laws and/or ordinances that are applicable to product maintenance.
- This device is intended for usage and transactions within Japan and the manufacturer bears no responsibility whatsoever for usage overseas. If intending to use this device outside Japan then please consult our company beforehand.
- As for collecting explosive dust, consult with your Amano representative, since dust explosion pressure diffusion type dust collector are available.
- In case of installing machine in a place with high dust concentration, please take measures against dust of the electric part.

## VNA,FCN

- If piping must be connected to the exhaust port then order an item with sealed structure specifications. When connecting piping to a standard specification (non-countermeasure part) exhaust port, then air leaks might occur from the upper section of the unit.

## Laser marking dust collector (PiH)

- This device collects dust from fumes and deodorizes odors from those fumes.
- Among other item, please comply with all caution items for standard dust collectors.

## Dust explosion pressure diffusion type dust collector(VN-SD, VNA-SDN/DN, PiF-D/SD, PiE-SDN/DN, IX-D, IP-D)

- To ensure proper usage of this product please read the instruction manual carefully before using.
- Dust explosion pressure diffusion type dust collector collects flammable dust (with dust explosiveness). Flammable substances, flammable gases and mixtures of flammable dust and gases can not be collected.
- Do not suction the following materials:
  - · Highly combustible potentially explosive materials..... magnesium, etc.
  - · Flammable materials..... gasoline, thinner, benzene, kerosene, paint, etc.
  - · Sparks ..... sparks, or dust that contains sparks
  - · Fire sources ..... such as cigarette stubs, ashes, etc.
  - · Others..... water, oil, liquid chemicals, toxic dust such as asbestos, etc.
- To change the type of inflammable dust for collection, have an (fee-charging) evaluation made for the extent of dust explosiveness, and only device on dust confirmed to be collectable by this device.
- We are not responsible for any determination of dust-collecting capability in case of a dust explosion risk remains unclear or without evaluation.
- Please consult with Amano branch office and sales office about (fee-charging) evaluation of dust explosion risk.
- Dust explosion pressure diffusion type dust collectors are designed to maintain conditions under which it is difficult for explosions to occur; however, they cannot completely prevent explosions.
- Please evaluate the explosion characteristics of the target dust from the dust explosion hazard test etc., and select an acceptable model for the result.
- Dust explosion pressure diffusion type dust collectors are basically outdoor equipment designed to lower the risk during explosion force dispersion. In case the dust collectors are installed indoors,the dust explosion pressure diffusion increase the riks of damage.
- To set it up indoors, be sure take a protective measure against dust explosion (including protection wall installation, elimination of elements which hamper the diffusion of explosion pressure, etc.). Along with the measure, change it to a fire extinguishing specification to alleviate the hazard induced by explosion pressure diffusion.
- Install dust explosion pressure diffusion type dust collectors in a place where people will not be working above it. Also, do not place any factory equipment on or above the machine.
- This unit is not an anti-explosion design. It cannot be installed in locations defined by law as hazardous.
- Do not operate the machine in areas exposed to mist, fumes or gases that are explosive or corrosive, and in or near place where explosive flammable dust scatters.
- Please comply with any legal regulations that are established for instllation.
- Keep the operating ambient temperature between 0 and 40°C(32 and 104°F). (system is not applicable)
- Be sure to ground the machine to protect against electrical shock and to remove static electrical charges.
- Be sure to use pipes with the appropriate diameter and make them as short as possible according to the dust collection conditions so that dust will not accumulate in them.
- Dispose of collected dust daily. Do not allow dust to accumulate in the bucket or hopper.
- To prevent static buildup, do not use dust bag.
- Please perform daily and periodical maintenance work in accordance with instructions described in the operation manual. Please comply with regulations stipulated by laws and/or ordinances that are applicable to product maintenance.
- In the event a dust explosion occurs please request an inspection by our company.
- This device is intended for usage and transactions within Japan and the manufacturer bears no responsibility whatsoever for usage overseas.If intending to use this device outside Japan then please consult with our company beforehand.
- In case of installing machine in a place with high dust concentration, please take measures against dust of the electric part.

## Fume Collector (FD-10, HF, FCN)

- To ensure proper usage of this product please read the instruction manual carefully before using.
- The Fume Collector FCN series is designed to collect fumes from welding or cutting as well as sparks emitted during those tasks.
- Do not suction the following materials (they could cause explosions):
  - · Explosive materials... magnesium, aluminum, titanium, zinc, epoxies, flour, etc.
  - · Flammable materials.....gasoline, thinner, benzene, kerosene, paint, etc.
  - · Adhesive materials.....water-soluble mist, oil mist, etc.
  - · Other .....water, oil, liquid chemicals, cigarette stubs, ashes, as well as toxic dust from asbestos, etc.
- This unit is not an anti-explosion design. It cannot be installed in locations defined by law as hazardous.
- Do not operate the machine in areas exposed to mist, fumes or gases that are explosive or corrosive, and in or near place where explosive flammable dust scatters.
- Please comply with any legal regulations that are established for this device
- Keep the operating ambient temperature between 0 and 40°C(32 and 104°F).
- Be sure to ground the machine to protect against electric shock.
- Be sure to use pipes with the appropriate diameter and make them as short as possible according to dust collection conditions so that dust will not accumulate in them.
- Dispose of collected dust daily. Do not allow dust to accumulate in the bucket or hopper.
- Please perform daily and periodical maintenance work in accordance with instructions described in the operation manual. Please comply with regulations stipulated by laws and/or ordinances that are applicable to product maintenance.
- This device is intended for usage and transactions within Japan and the manufacturer bears no responsibility whatsoever for usage overseas. If intending to use this device outside Japan then please consult our company beforehand.
- As for collecting explosive dust, consult with your Amano representative, since dust collectors equipped with anti-explosion mechanisms are available.

## DB

- To ensure proper usage of this product please read the instruction manual carefully before using.
- The DB series is a preprocessor device for preventing sparks from entering within the dust collector.
- Do not suction the following materials:
  - · Explosive materials .....aluminum, magnesium, titanium, zinc, epoxies, etc.
  - · Flammable materials.....gasoline, thinner, benzene, kerosene, paint, etc.
  - · Abrasive dust.....such as dust emitted from high-speed cutters and grinders, etc.
  - · Fire sources .....such as cigarette stubs, ashes, etc.
  - · Other .....water, oil, liquid chemicals, paper or other combustible waste, as well as toxic dust from
- Do not operate the machine in areas exposed to mist, fumes or gases that are explosive or corrosive, and in or near place where explosive flammable dust scatters.
- Dispose of collected dust daily. Do not allow dust to accumulate in the bucket.
- This device is intended for usage and transactions within Japan and the manufacturer bears no responsibility whatsoever for usage overseas. If intending to use this device outside Japan then please consult our company beforehand.

## SR

- To ensure proper usage of this product please read the instruction manual carefully before using.
- The SR Series dust collectors are preprocessor devices designed to present dust collector filter blockages and allow a long-term filter replacement cycle.
- If the aim is spark prevention then use the bucket type.
- Do not suction up the following materials:
  - · Explosive materials .....aluminum, magnesium, titanium, zinc, epoxies, etc.
  - · Flammable materials.....gasoline, thinner, benzene, kerosene, paint, etc.
  - · Fire sources .....such as cigarette stubs, ashes, etc.
  - · Others.....water, oil, liquid chemicals, toxic dust such as asbestos, etc.
- Do not operate the machine in areas exposed to mist, fumes or gases that are explosive or corrosive, and in or near place where explosive flammable dust scatters.
- Dispose of collected dust daily. Do not allow dust to accumulate in the bucket or dust bag.
- This device is intended for usage and transactions within Japan and the manufacturer bears no responsibility whatsoever for usage overseas. If intending to use this device outside Japan then please consult our company beforehand.

## Industrial vacuum cleaners·concentrated cleaning systems (V-Σ,IPR/IXR,central cleaning)

- To ensure proper usage of this product please read the instruction manual carefully before using.
- This device is for collecting ordinary dust/powder that is not likely to cause fires or dust explosions.
- Do not suction the following materials:
  - · Explosive materials... magnesium, aluminum, titanium, zinc, epoxies, flour, etc.
  - · Flammable materials.....gasoline, thinner, benzene, kerosene, paint, etc.
  - · Sparks .....sparks, or dust that contains sparks
  - · Fire sources .....such as cigarette stubs, ashes, etc.
  - · Other fluids .....such as water, oil, liquid chemicals, etc.
- If there is a danger of suctioning sparks when collecting flammable dust from polishing work and so forth, consult with your branch or sales office to select the appropriate model.
- This unit is not an anti-explosion design. It cannot be installed in locations defined by law as hazardous.
- Do not operate the machine in areas exposed to mist, fumes or gases that are explosive or corrosive, and in or near place where explosive flammable dust scatters.
- Please comply with any legal regulations that are established for this device.
- Keep the operating ambient temperature between 0 and 40°C(32 and 104°F).
- Be sure to ground the machine to protect against electric shock.
- Be sure to use pipes with the appropriate diameter and make them as short as possible according to dust collection conditions so that dust will not accumulate in them.
- Dispose of collected dust daily. Do not allow dust to accumulate in the bucket or hopper.
- Please perform daily and periodical maintenance work in accordance with instructions described in the operation manual. Please comply with regulations stipulated by laws and/or ordinances that are applicable to product maintenance.
- This device is intended for usage and transactions within Japan and the manufacturer bears no responsibility whatsoever for usage overseas. If intending to use this device outside Japan then please consults our company beforehand.
- In case of installing machine in a place with high dust concentration, please take measures against dust of the electric part.

## Dust explosion pressure diffusion type industrial vacuum cleaner (V-SDR)

- To ensure proper usage of this product please read the instruction manual carefully before using.
- The collecting dust of the dust-explosion pressure diffusion type industrial vacuum cleaner shall be the combustible dust of which we are ensured of dust-collecting capability by the evaluation of its dust explosion hazardous characteristics.
- Do not suction the following materials:
  - · Highly combustible potentially explosive materials..... magnesium, etc.
  - · Flammable materials.....gasoline, thinner, benzene, kerosene, paint, etc.
  - · Sparks .....sparks, or dust that contains sparks
  - · Fire sources .....such as cigarette stubs, ashes, etc.
  - · Other fluids .....such as water, oil, liquid chemicals, etc.
- To change the type of inflammable dust for collection have an (fee-charging) evaluation made for the extent of dust explosiveness, and only use on dust confirmed to be collectable by this device.
- We are not responsible for any determination of dust-collecting capability in case of a dust explosion risk remains unclear or without evaluation.
- Please consult with Amano branch office and sales office about (fee-charging) evaluation of dust explosion risk.
- Dust explosion pressure diffusion type dust collectors are designed to maintain conditions under which it is difficult for explosions to occur; however, they cannot completely prevent explosions.

- Install dust explosion pressure diffusion type dust collectors in a place where people will not be working above it. Also, do not place any factory equipment on or above the machine.
- This unit is not an anti-explosion design. It cannot be installed in locations defined by law as hazardous.
- Do not operate the machine in areas exposed to mist, fumes or gases that are explosive or corrosive, and in or near place where explosive flammable dust scatters.
- Please comply with any legal regulations that are established for this device
- Keep the operating ambient temperature between 0 and 40°C(32 and 104°F).
- Be sure to ground the machine to protect against electric shock and to prevent static electrical charges.
- Dispose of collected dust daily. Do not allow dust to accumulate in the bucket.
- To prevent static buildup, do not use dust bag.
- Please perform daily and periodical maintenance work in accordance with instructions described in the operation manual. Please comply with regulations stipulated by laws and/or ordinances that are applicable to product maintenance.
- In the event a dust explosion occurs please request an inspection by our company.
- This device is intended for usage and transactions within Japan and the manufacturer bears no responsibility whatsoever for usage overseas. If intending to use this device outside Japan then please consults our company beforehand.

## ■ VF-2LD

- To ensure proper usage of this product please read the instruction manual carefully before using.
- The collecting dust shall be limited to general particulates and combustible organic perticulates, which are ensured the dust-collecting capability by dust explosion risk assenment as well as with dust explosibility numerically expressed as follows.
  Kstvalue $300\times10^2$kPam/s or less
  Pmax: $11\times10^2$kPa or less
- Do not suction the following materials:
  · Potentially explosive combustible dust.....magnesium, aluminum, etc.
  · Flammable materials.....gasoline, thinner, benzene, kerosene, paint, etc.
  · Sparks .....sparks, or dust that contains sparks
  · Others.....toxic dust such as asbestos and fluids such as liquid chemicals
- To change the inflammable organic dust targeted for collection, make an evaluation of the extent of that dust's explosiveness, and only use on dust confirmed to be collectable by this device. We are not responsible for any determination of dust-collecting capability in case of a dust explosion risk remains unclear or without evaluation.
- Please consult with Amano branch office and sales office about (fee-charging) evaluation of dust explosion risk.
- This device has a structure designed to prevent explosions however it cannot completely prevent explosions..
- Remove all combustible material within 4.7 meters above the explosion discharge port and utilize non-combustible material.
- This unit is not an anti-explosion design. It cannot be installed in locations defined by law as hazardous.
- Do not operate the machine in areas exposed to mist, fumes or gases that are explosive or corrosive, and in or near place where explosive flammable dust scatters.
- Please comply with any legal regulations that are established for this device
- Keep the operating ambient temperature between 0 and 40°C(32 and 104°F).
- Always connect to ground regardless of whether operating, stopped, or performing maintenance.
- Use electrically conductive material in piping such as hoses and ducts, and satisfy the condition of a resistance value of $10^6\Omega$/cm or less.
- Always connect to ground for tasks such as shakedown of dust adhering to filters and dust exhaust (discharge), and have the worker perform the tasks after removing static charges accumulated on the workers themselves.
- Do not extract buckets right after shakedown of filters where dust is adhering.
- Please perform daily and periodical maintenance work in accordance with instructions described in the operation manual. Please comply with regulations stipulated by laws and/or ordinances that are applicable to product maintenance.
- This device is intended for usage and transactions within Japan and the manufacturer bears no responsibility whatsoever for usage overseas.
- Discharge dust collected in the bucket every day, and do not allow dust to accumulate within the bucket.
- To prevent static buildup, do not use dust packs.
- Devices where explosions occurred cannot be reused.
- In case of installing machine in a place with high dust concentration, please take measures against dust of the electric part.

## ■ Oil and Water-Soluble Mist Collectors (EM-eⅡ, EM-eH, EM-SC, EM-SCⅡLt,MZ, MJ, MS)

- To ensure proper usage of this product please read the instruction manual carefully before using.
- This machine is designed to handle mist of water-soluble and oil based cutting fluids.
- During intake (suction) of oily mist in the MZ·MJ series, attach and use the after-filter option.
- Do not suction the following materials:
  · Flammable materials.....gasoline, thinner, benzene, kerosene, paint, etc.
  · Dust or fumes
  · Fire sources .....such as cigarette stubs, ashes, etc.
  · Other fluids .....such as water, water vapor, chemicals
  · Oil or mist with a flash point lower than 80°C(176°F)
- Keep the operating ambient temperature between 0 and 40°C(32 and 104°F).
- Use the machine at below maximum inlet concentration.
- This device cannot remove odors or gas component.
- Use the EM-eH for die casting machines.
  · Do not use in magnesium die-casting machines.
  · Do not utilize parting agents (mold lubricators) containing diluted kerosene.
- This unit is not an anti-explosion design. It cannot be installed in locations defined by law as hazardous.
- Do not operate the machine in areas exposed to mist, fumes or gases that are explosive or corrosive, and in or near place where explosive flammable dust scatters.
- Be sure to ground the machine to protect against electric shock.
- Be sure to use pipes with the appropriate diameter and make them as short as possible according to dust collection conditions so that dust will not accumulate in them.
- If you want to use the machine to suction exhaust gases from vacuum pumps, combustion engines, etc., please inform our branch or sales office of the suction conditions and find out whether or not you can use this machine.
- Perform maintenance of electrodes according to the following items.
  · Inspect for dust contamination adhering to parts at least once a week.
  · If dust or contamination has deposited up to 2mm(0.07inch) at time of inspection then wash it away.
  · Periodically wash at least once every 3 months.
- When making inspections and replacing filters and components always cut the power and check that the fan rotation has completely stopped before starting the task.
- Do not use oily detergent adhering to the collecting unit or inflammable substances for cleaning the unit. Operating the unit with fluid containing inflammable substances may cause it to ignite and lead to explosions or fires.
  【Banned inflammable substances】
  · Liquids such as gasoline, kerosene, thinner, tolulene
  · Inflammable detergents (Detergents marketed under commercial names such as parts cleaners and brake cleaners)
- Use soluble detergent for oil/grease removal when cleaning the main unit and adhered oil of the collecting unit.
  Always comply with the instructions listed on the detergent.
- In case of installing machine in a place with high dust concentration, please take measures against dust of the electric part.

## ■ Water-Soluble Mist Collectors (MC-45)

- To ensure proper usage of this product please read the instruction manual carefully before using.
- This machine is designed to handle water-soluble mist.
- Do not suction the following materials:
  · Flammable materials.....gasoline, thinner, benzene, kerosene, paint, etc.
  · Dust or fumes
  · Fire sources .....such as cigarette stubs, ashes, etc.
  · Other fluids .....such as water, water vapor, chemicals
  Oily mist generated from oily cutting fluid
  To suction oil mist, use another model designed to collect oil mist.
- Keep the operating ambient temperature between 0 and 40°C(32 and 104°F).
- Use machine at below maximum inlet dust concentration.
- This unit is not an anti-explosion design. It cannot be installed in locations defined by law as hazardous.
- Do not operate the machine in areas exposed to mist, fumes or gases that are explosive or corrosive, and in or near place where explosive flammable dust scatters.
- Always connect to ground to prevent electrical shocks.
- Be sure to use pipes with the appropriate diameter and make them as short as possible according to dust collection conditions so that dust will not accumulate in them.
- This device cannot remove odors or gas component.
- If piping must be connected to the exhaust (discharge) port then order an item with sealed structure specifications.
  When connecting piping to a standard specification (non-contermeasure part) exhaust port, then air leaks might occur from the upper section of the unit.

## ■ SS-N

- To ensure proper usage of this product please read the instruction manual carefully before using.
- Do not allow intake/suction of the following materials:
  · Explosive materials... magnesium, aluminum, titanium, zinc, epoxies, flour, etc.
  · Flammable materials.....gasoline, thinner, benzene, kerosene, paint, etc.
  · Fire sources .....such as cigarette stubs, ashes, etc.
  · Adhesive materials.....Water-Soluble Mist, oil mist, etc.
  · Other fluids .....such as water, oil, liquid chemicals
- Absolutely never operate this devices if the internal water level is not at the correct level.
- Please consult Amano branch office in the case of freezing in the winter season, cold areas, and outdoor installations.
- Remove the trapped dust and discharge it every day as sludge.
  Discharge the sludge according to related legal regulations as specified by each company.
- This unit is not an anti-explosion design. It cannot be installed in locations defined by law as hazardous.
- Do not operate the machine in areas exposed to mist, fumes or gases that are explosive or corrosive, and in or near place where explosive flammable dust scatters.
- Please comply with any legal regulations that are established for this device.
- Be sure to use pipes with no droop and an appropriate diameter and keep them as short as possible according to dust collection conditions so that dust will not accumulate in them.
- Always connect to ground to remove static charges and to prevent electrical shock.
- Keep the operating ambient temperature between 0 and 40°C(32 and 104°F).
- Please perform daily and periodical maintenance work in accordance with instructions described in the operation manual. Please comply with regulations stipulated by laws and/or ordinances that are applicable to product maintenance.
- This device is intended for usage and transactions within Japan and the manufacturer bears no responsibility whatsoever for usage overseas.
  If intending to use this device outside Japan then please consult our company beforehand.
- In case of installing machine in a place with high dust concentration, please take measures against dust of the electric part.

## ■ Laser marking dust collectors (VF-5HG,VF-5HN,VF-5H)

- To ensure proper usage of this product please read the instruction manual carefully before using.
- This machine is for collecting fumes generated by laser markers and other items and deodorizes those fumes.
- Do not suction the following materials:
  · Explosive materials... magnesium, aluminum, titanium, zinc, epoxies, flour, etc.
  · Flammable materials.....gasoline, thinner, benzene, kerosene, paint, etc.
  · Corrosive substance.....chlorine gas, chlorine-sulfuric acid gas, hydrogen fluoride, etc.
  · Sparks .....sparks, or dust that contains sparks
  · Fire sources .....such as cigarette stubs, ashes, etc.
  · Other .....Toxic dust such as asbestos and fluid such as water, oil, liquid chemicals, etc.
- Before selecting a particular model, please consult with us beforehand if the machine must intake (suction) dust containing sparks.
- This unit is not an anti-explosion design. It cannot be installed in locations defined by law as hazardous.
- Do not operate the machine in areas exposed to mist, fumes or gases that are explosive or corrosive, and in or near place where explosive flammable dust scatters.
- Please comply with any legal regulations that are established for this device.
- Keep the operating ambient temperature between 5 and 40°C(41 and 104°F).
- Be sure to ground the machine to protect against electric shock.
- Be sure to use pipes with no droop and with an appropriate diameter and make them as short as possible according to dust collection conditions so that dust will not accumulate in them.
- Please perform daily and periodical maintenance work in accordance with instructions described in the operation manual. Please comply with regulations stipulated by laws and/or ordinances that are applicable to product maintenance.
- This device is intended for usage and transactions within Japan and the manufacturer bears no responsibility whatsoever for usage overseas. If intending to use this device outside Japan then please consults our company beforehand.
- In case of installing machine in a place with high dust concentration, please take measures against dust of the electric part.

## ■ TFP,TFP-S,HGD, Pneumatic Conveying Systems

- Be sure to read the instruction manual thoroughly before getting started, and use the machine correctly.